



United States
Department of
Agriculture

Agricultural
Research
Service

Miscellaneous
Publication
No. 1438

George Henry Falkiner Nuttall and the Nuttall Tick Catalogue

Historic, archived document

Do not assume content reflects current
scientific knowledge, policies, or practices.

AD-33 Bookplate
(1-63)

NATIONAL

**A
G
R
I
C
U
L
T
U
R
A
L**



LIBRARY

IND ✓

1
A984M

No 1438

1984

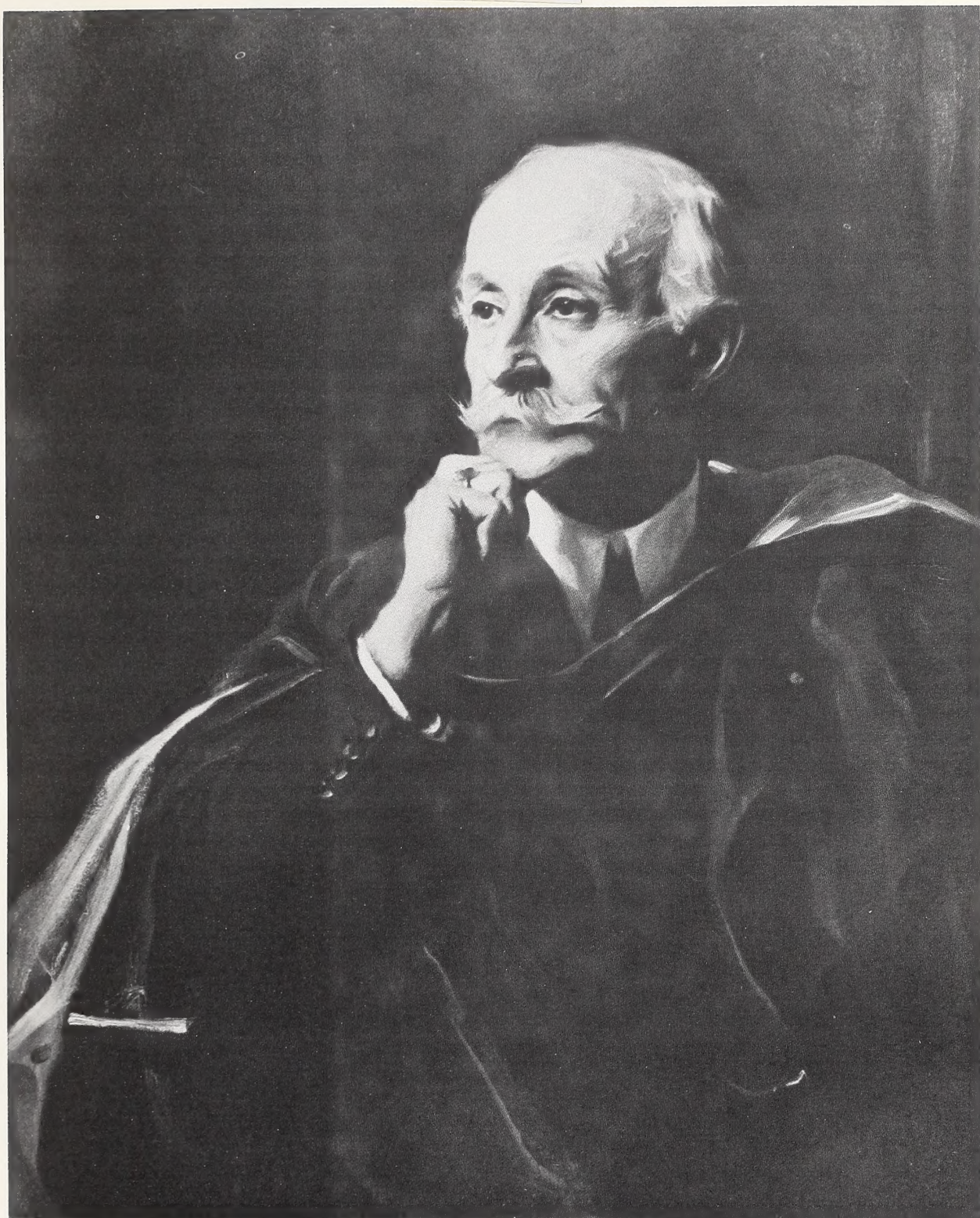
Copy 1

EXCHANGE Rec'd

MAR 05 1985

100

825204



Geo. H. F. Nuttall

George Henry Falkiner Nuttall (1862-1937). Portrait in oils (1932) by Philip Alexius Laszlo de Lombos.



United States
Department of
Agriculture

Agricultural
Research
Service

Miscellaneous
Publication
No. 1438

George Henry Falkiner Nuttall and the Nuttall Tick Catalogue

By James E. Keirans

U.S. DEPT. OF AGRICULTURE
NATL. AGRIC. LIBRARY
RECEIVED
MAR 13 '65
FRODO BAGGINS
CLIPPER

Abstract

Keirans, James E. 1984. George Henry Falkiner Nuttall and the Nuttall tick catalogue. U.S. Department of Agriculture Miscellaneous Publication Number 1438, 1785 pp.

During the first third of this century, Professor George H. F. Nuttall of Cambridge University amassed what, at that time, was the world's largest collection of ticks (Acari: Ixodoidea). He kept detailed records on all Ixodoidea he received, including a three-volume

handwritten catalogue. This publication presents a biography of G. H. F. Nuttall, his tick catalogue in its original and updated form, and four appendixes listing type specimens of tick species, species names of Ixodoidea, host names, and localities found in the catalogue.

KEYWORDS: Acari, biography, George Henry Falkiner Nuttall, Ixodoidea, ticks.

Foreword

The ticks (Acari, Metastigmata) are without doubt the most important carriers and reservoir hosts of disease organisms affecting wild and domestic animals and, next to mosquitoes, the most important vectors of human pathogens. The bites of certain species may also cause an acute and sometimes fatal intoxication in humans known as tick paralysis, and heavy infestations on domestic animals may lead to unthriftiness and even death through exsanguination. Serious losses may also be caused by secondary infections of wounds inflicted by the parasites. Thus the bioeconomic problems created by the group are enormous, and clearly of fundamental importance to their understanding is an adequate taxonomic foundation. This to a great extent must be dependent on studies of museum material and particularly on studies of collections of outstanding importance in relation to the taxonomic history of the group.

Arguably, from this historical viewpoint, the single most important collection of ticks is that amassed by Professor G. H. F. Nuttall. Although Nuttall first turned his attention to the role of arthropods in the spread of disease as early as 1897, the real origin of the tick collection began with his investigations of canine piroplasmiasis at the University of Cambridge in 1904. When these studies revealed a lack of coordinated knowledge of the biology and systematics of tick vectors, Nuttall planned and began to collect material for a comprehensive work, "Ticks: A Monograph of the Ixodoidea." For this project he enlisted the aid of C. Warburton, L. E. Robinson, and W. F. Cooper.

Originally the work was intended to be published as a single volume, but the task presented great difficulties. In 1908, the decision was made to issue separately Part I of Volume I dealing with the Argasidae. Part II ("Ixodidae,"

Section I, "Classification," Section II, "The Genus Ixodes") and Part III ("The Genus Haemaphysalis"), both by G. H. F. Nuttall and C. Warburton, were published in 1911 and 1915, but the work was seriously interrupted by World War I. Part IV ("The Genus Amblyomma," by L. E. Robinson), which formed the first part of Volume II, was not published until 1926. It was Nuttall's fervent wish that the "Monograph" be completed. Following his retirement as Quick Professor of Biology at Cambridge University in 1931, he was able to devote more attention to the project. Sadly his sudden death in December 1937 brought the undertaking to a standstill, and although another fasciculus (Part V, "On the Genera Dermacentor, Anocentor, Cosmiomma, Boophilus, and Margaropus," by Professor D. R. Arthur) was published in 1960, the Monograph remains unfinished.

Nuttall's systematic studies at Cambridge, undertaken mainly at the Quick Laboratory and at the Molteno Institute for Research in Parasitology, spanned a period of about 33 years. During this time he received enormous amounts of material for critical examination from physicians, veterinarians, parasitologists, and taxonomists working in all parts of the world, so that at the time of its presentation to the British Museum (Natural History) by the Molteno Institute in 1939 his collection was unrivaled in its importance. As presented, the collection comprised three sections: A reference collection, rich in types, representing nearly all the valid species then recognized; a "stock" collection with many species represented by long series of specimens; and an assemblage of laboratory reared material. All items were carefully labeled and numbered and were documented in detail in a three-volume handwritten register.

Over the years the Nuttall collection has

been curated with painstaking care by successive heads of the Arachnida Section, and in accordance with the terms of the gift it has been maintained as a discrete entity. However, although the need has long been recognized, the Museum has been unable to prepare a catalogue for publication. Thus, it was particularly pleasing to be able to welcome J. E. Keirans of the Rocky Mountain Laboratories, Hamilton, Mont., an authority of international standing on the Metastigmata, as a visiting scientist to the Arachnida Section, and to provide him with the facilities for a 12-month study of the Nuttall collection with a view to producing a critical catalogue. He has completed the task with notable suc-

cess. Tick workers everywhere will be greatly indebted to him, and, having been directly responsible for the curation of the Nuttall collection for several years, I feel privileged to have been invited to contribute the foreword to this important work.



J. G. Sheals
Keeper of Zoology
British Museum
(Natural History)

Preface

The Nuttall collection of ticks, which had never been revised and updated in toto, was discussed in the autumn of 1976 with the acarology staff of the British Museum (Natural History). This collection had been donated to the British Museum (Nat. Hist.) in 1939 by the Molteno Institute for Research in Parasitology, Cambridge University. The staff agreed that to have this important historical collection, rich in type specimens, entirely reidentified and updated would benefit the Museum. I agreed that, as a systematist on Ixodoidea from the Rocky Mountain Laboratories (RML), U.S. Public Health Service, it would be advantageous for RML because we were entering all data relating to the two largest tick collections in the world, the RML collection and that of Harry Hoogstraal, Naval Medical Research Unit No. 3 (NAMRU-3), Cairo, Egypt, into the computer at the U.S. National Museum of Natural History. With the addition of Professor Nuttall's collection, data on the three most important tick collections in the world would become available to researchers. In addition, the Nuttall collection contains type specimens for over 150 tick species and numerous species of medical and veterinary importance

collected from all over the world. Accurate determination of these species would be beneficial to all tick workers.

I began a year's visit to the British Museum (Nat. Hist.) in August 1977 for the purpose of reidentifying the Nuttall tick collection. This research was supported by the Office of International Health, National Institutes of Health, Bethesda, Md.

This publication brings up to date, in a slightly revised form, Nuttall's "Catalogue of Ticks," a three-volume handwritten journal, never before published but certainly a work that leading tick specialists have found one of the most useful single references on the Ixodoidea. The Nuttall catalogue, as now updated and revised, is a historical record of an exceedingly important group of ectoparasites. Because of Professor Nuttall's diligent listing of all relevant collection data relating to his ticks, combined with those data from the RML and NAMRU-3 tick collections, we will undoubtedly be able to better understand tick-host relationships, geographical distribution patterns, and seasonal dynamics within the Ixodoidea.

Acknowledgments

The following persons are gratefully acknowledged: At the British Museum (Natural History), J. Gordon Sheals, Keeper of Zoology, kindly invited me to conduct this research on Professor Nuttall's tick collection; Keith H. Hyatt, Arachnida and Myriapoda Section, freely provided access to the Nuttall collection plus space, tools, and time to study this material; Anne S. Baker, Arachnida and Myriapoda Section, provided rare and obscure references relating to Professor Nuttall that are available only in the library of the British Museum (Nat. Hist.). A special thanks, also, to Bernice E. Brewster, formerly of the Arachnida and Myriapoda Section, who provided host and locality information for which I am most grateful.

Donald Macfarlane, Commonwealth Institute of Entomology, through his knowledge of the British records office, was instrumental in enabling me to trace the daughter and son of Professor Nuttall. Macfarlane also provided invaluable assistance in solving certain British conventions in housing, schooling, banking, and so forth, for which my

family and I are most grateful. Dennis W. Babbage, emeritus fellow and former president, and Ralph E. Bennett, president, Magdalene College, Cambridge University, were gracious in assisting me in gathering background material on Professor Nuttall's later days at Cambridge.

To the following authorities on the Ixodoidea my thanks for their taxonomic assistance: Carleton M. Clifford, Rocky Mountain Laboratories, Hamilton, Mont.; Harry Hoogstraal and Hilda Wassef, NAMRU-3, Cairo, Egypt, and Jane B. Walker, Veterinary Research Institute, Onderstepoort, Republic of South Africa. Professor Nuttall's son, George R. F. Nuttall, was very helpful in filling in details on his father's life. I am grateful to F. G. A. M. Smit, British Museum (Nat. Hist.), R. W. Wenzel, Field Museum of Natural History, and K. C. Kim, Pennsylvania State University, for determinations of Siphonaptera, Hippoboscidae, and Anoplura, respectively. Parts of this research were aided by a Wellcome Research Travel Grant from the Burroughs Wellcome Fund.

Contents

	Page		Page
Biography of George H. F. Nuttall-----	2	References-----	1697
Explanatory notes on the catalogue-----	7	Appendix I - List of type specimens in the Nuttall tick collection-----	1717
Format-----	7	Appendix II - List of species names of Ixodoidea in the Nuttall tick collection-----	1730
Tick determinations-----	8	Appendix III - Host names for Ixodoidea in the Nuttall tick collection-----	1753
The Nuttall tick catalogue, volume I, Nos. 1-800-----	11	Appendix IV - Geographical origin for Ixodoidea in the Nuttall tick collection-----	1774
The Nuttall tick catalogue, volume II, Nos. 801-3500-----	353		
The Nuttall tick catalogue, volume III, Nos. 3501-3972-----	1478		

Additional copies of this publication can be purchased from the U.S. Government Printing Office, Washington, D.C. 20402. When ordering by mail, ask for the publication by title and series. For faster service, call the GPO order desk at (202) 783-3238 and charge the publication to your Visa, MasterCard, or GPO Deposit Account. Discounts are available for

purchases of more than 100 copies mailed to the same address.

Microfiche copies can be purchased from the National Technical Information Service, 5285 Port Royal Road, Springfield, Va. 22161. For additional information, call NTIS order desk at (703) 487-4650.

George Henry Falkiner Nuttall and the Nuttall Tick Catalogue

by James E. Keirans^{1/}

From the turn of the century until his death in 1937, George H. F. Nuttall amassed what at the time was the world's largest tick collection. This collection was the basis for monographic revisions of the genera *Argas* and *Ornithodoros* (1908), *Ixodes* (1911), *Haemaphysalis* (1915), and *Amblyomma* (1926). These works are still consulted by specialists and, although outdated, the *Amblyomma* revision remains the best published work on that genus.

Nuttall was in a unique position with regard to the collection of ticks. He personally collected, but that was a secondary source of material. As Director of the Molteno Institute for Research in Parasitology, Cambridge University, he had access to collections by present and former students and corresponded with parasitologists throughout the world. He also exchanged tick specimens with most of the leading tick workers of the day, including L. G. Neumann, W. Dönitz, H. de B. Aragão, E. Brumpt, and R. A. Cooley. Readers of the scientific publications "Parasitology" and the "Journal of Hygiene," both of which he edited, were acquainted with his numerous publications on ticks and sent him samples for identification. More importantly, this was the era of the greatest expansion of the British Colonial Empire and the time of the formation of the Entomological Research Committee (Tropical Africa), later expanded to the Imperial

Bureau of Entomology and now the Commonwealth Institute of Entomology. This committee began the first systematic collection and study of insects and other arthropods injurious to man, animals, and crops in Africa (Anon., 1909; Shipley, 1910). Nuttall was a member of this committee and was responsible for all tick identifications.

However, all this access to huge tick collections would have been in vain had it not been for Nuttall's meticulous recordkeeping. Each collection received a Nuttall number, and all data were put on labels kept with the ticks in alcohol; numerically, the data were entered in his tick catalogue. The large number of ticks from collectors throughout the world, combined with Nuttall's detailed accurate recordkeeping and his taxonomic expertise, led to a tick collection unrivaled in its day.

After Nuttall's death in 1937, Cambridge University presented his tick collection to the British Museum (Nat. Hist.) with the single stipulation that it remain a separate entity as--The Nuttall Tick Collection--and not be incorporated into the general collection. Various investigators have studied parts of Nuttall's collection when they pertained to species groups in which they had an interest, but the entire collection has never been revised and updated. Since his death, taxonomic concepts have changed within the Ixodoidea and their numerous vertebrate hosts. In addition, the emergence of scores of new nations, especially in the post-World War II period, requires an updating of all locality data associated with the Nuttall collection.

^{1/} Research entomologist (medical), Department of Health and Human Services (HHS), Public Health Service, National Institutes of Health, National Institute of Allergy and Infectious Diseases, Epidemiology Branch, Rocky Mountain Laboratories, Hamilton, Mont. 59840; now in HHS, Entomology Department, National Museum of Natural History, Museum Support Center, Smithsonian Institution, Washington, D.C. 20560.

Biography of George H. F. Nuttall

George Henry Falkiner Nuttall was born in San Francisco, Calif., on July 5, 1862, the second of three sons and two daughters of Robert Kennedy Nuttall, M.D., and his wife, Magdalena. His father (1815-81) received his doctor of medicine degree from Aberdeen in 1847 and was a physician in the prison colony in Tasmania for 4 years before migrating to San Francisco and establishing an obstetrical practice. In 1865, the family moved to Europe, where the children were educated in France, Germany, England, and Switzerland. In 1873, his father took a house in Richmond, Surrey, and George went to Epsom for a part of his primary school education; in 1876, he was privately tutored before returning to America in 1878. It was to this cosmopolitan upbringing that Nuttall owed his ability to speak German, French, Italian, and Spanish, accomplishments that were to help him greatly in his scientific career and travels. He entered the University of California, Berkeley, to study medicine and obtained a doctor of medicine degree in 1884 and also won the Kane Prize.

After 1 year at Johns Hopkins University in Baltimore, Md., Nuttall went to Germany--first, to Breslau and later, Göttingen, where he became interested in parasitology, which became the main scientific interest of his life. In 1891, he returned to America as assistant to W. H. Welch, professor of pathology at Johns Hopkins. From 1892 to 1899, he worked on hygiene at Göttingen and Berlin. In 1895, he married Paula von Oertzen-Kittendorf (1873-1922) of Mecklenburg. They had two sons, George (b. 1896) and Winfred (1897-1972), and a daughter, Carmelita (b. 1902). In 1899, Nuttall gave lectures on bacteriology at Cambridge. A year later, he was appointed university lecturer in bacteriology and preventive medicine.

In 1901, Nuttall founded the "Journal of Hygiene," which he edited up to the time of his death. Seven years later he began "Parasitology," which he edited until 1933. The following note appears in

Nuttall's journal for May 1900: "In this month I saw Dr. John Haldane, F.R.S., at a meeting of the Physiological Society in Cambridge. We had a conversation which led to our starting the JOURNAL OF HYGIENE the public announcement of which appeared in October, the first number coming out in January 1901. The suggestion initiated from Haldane, who being a physiologist was unwilling to take on the chief editorship. Dr. Arthur Newsholme, representing the administration side of Hygiene, joined us as third editor and we soon secured a lengthy list of collaborators in all parts of the world." In his editorial work he displayed the same thoroughness as in his research. He considered that part of the duty of an editor was educational and spent much time in correcting and improving papers and in advising young and inexperienced workers. As editor, he exerted great influence on investigators all over the world, and his journals became models upon which the publications of several scientific societies were based.

Among his outstanding contributions to science was his discovery while working in Flugge's Institute (1888) that defibrinated blood possesses a strong bactericidal property against anthrax bacilli and that this property disappears by heating the blood to 55° C. The results of this work were incorporated in a paper "A Contribution to the Study of Immunity," which received the triennial Boylston Prize from Harvard University. This work initiated the study of humoral immunity and was the forerunner of such great discoveries as antitoxic immunity by workers like E. A. Behring and S. Kitasato. It occupied also a prominent place in the discussion of humoral versus cellular immunity formulated by E. Metchnikoff.

In collaboration with W. H. Welch (1892), he studied in great detail the anaerobic gas-producing micro-organism known now as Clostridium perfringens, the agent of gas gangrene, the importance of which as a pathogenic agent was not fully appreciated until World War I.

In collaboration with H. Thierfelder (1895-97), he carried out the first successful experiments on life under aseptic conditions. In these investigations, guinea pigs delivered by Caesarean section were kept alive and fed in a specially devised chamber under bacteria-free conditions.

In 1897, Nuttall turned his attention to the role of arthropods in the spread of disease, a subject to which he devoted his later life. In 1899, he published his well-known paper "On the Role of Insects, Arachnids and Myriapods as Carriers in the Spread of Bacterial and Parasitic Diseases of Man and Animals," which contains an exhaustive critical and historical review of the entire subject. Soon afterward (1900-01), he became interested in the history of malaria in England and in collaboration with L. Cobbett, T. Strangeways, and others undertook a survey of the distribution of the genus Anopheles in England. He found that three species of these mosquitoes were in all districts that were formerly malarious. The disappearance of malaria in England was therefore not due to the extinction of Anopheles. In collaboration with A. E. Shipley, he carried out an important investigation on the structure and biology of Anopheles, which is still considered a classic.

About the same time (1901), Nuttall turned his interest to precipitin reactions. He devoted the next 3 years to studying the application of the precipitin reaction to phylogenetic relationships among vertebrates. In 1904, he published his classic monograph "Blood Immunity and Blood Relationship," incorporating the results of an extensive investigation of precipitin tests carried out on the blood of about 600 species of animals. This investigation clearly established the correlation between the antigenic relationships of animal sera and the zoological relationships of the species. It threw a new light on the study of the phylogenetic relationships in the animal kingdom and provided also a new method for identifying the character of minute

traces of blood, a procedure that has had notable applications in forensic medicine.

After the publication of this monograph, Nuttall began his investigations on diseases transmitted to animals by ticks. By means of infected ticks (Haemaphysalis leachi) sent to him by C. P. Lounsbury from South Africa, he succeeded in infecting dogs with the agent of piroplasmosis, a disease unknown in England. This was the first case of investigating a disease imported by an infected vector. An important result of this study, which had great economic importance, was the discovery of the curative property of trypan blue for piroplasmosis in dogs, cattle, and sheep. This study was followed by an extensive investigation of the anatomy, biology, life history, and systematics of ticks, carried out in collaboration with C. Warburton and L. E. Robinson. The results of these investigations are incorporated in numerous papers and in the monographic study of ticks that occupied him on and off during the remaining years of his life. During this investigation Nuttall acquired a very large collection of ticks from all parts of the world, at that time the largest in existence and rich in type specimens.

Most of his research interest during and after World War I was in the study of the Anoplura, their life history, biology, anatomy, and the problems of combating the spread of these parasites.

In his early life Nuttall had traveled in Mexico, Cuba, and North America, and it was probably during this period that he became interested in natural science. His uncle, Tiburcio Parrott, gave him his first microscope and started him in making and preparing microscopic slide mounts of all varieties of animals and plants. This was perhaps the initial event in Nuttall's scientific career.

Nuttall's scientific work shows that he possessed the attributes of the acute observer, the experimental scientist, and the naturalist to a remarkable

degree. These powers enabled him to recognize small specific characters with the intuition of the systematist and, at the same time, to unravel the most complicated anatomical structures. As an experimentalist, he was able to devise complicated and well-controlled experiments and to overcome great technical difficulties in carrying them out.

As a naturalist, he showed a real passion for collecting all sorts of specimens and in preserving, classifying, and cataloguing them. This work was always carried out with a great regard for permanence. He selected always the correct container for the specimen, unfading ink, and paper of lasting quality. The catalogues of his various collections have several hundreds or, in the case of ticks, thousands of entries in his own handwriting, giving the complete history of specimens to which they refer. In his journal, with equal meticulousness, Nuttall recounted his daily experiences, conversations, trips to various meetings, and interesting visitors to his laboratory and home.

In addition to his scientific attainments, Nuttall read widely on a variety of subjects and spoke with expertise on such topics as heraldry and gardening. He was also an excellent draftsman with a great interest in art. In 1904, he was elected a Fellow of the Royal Society, at the same time as his friend A. E. Shipley, and the year 1906 was one of the most important of his life as shown by the following journal entry.

"July 20 admitted to a Junior Fellowship at Christ's College. October 16 elected Quick Professor of Biology at Cambridge, and duly admitted on the 19th by the Vice-Chancellor (Mr. Roberts of Caius) at the Lodge and on the same day went to Brighton to see Mother - back to C. 24th. 24 May proceeded to the degree of Dr. of Science (Cambridge). November 20 dined with Prof. Newton, F.R.S., at Magdalene College after having at 11 a.m. been one of a deputation which was presented to the King of Norway at Buckingham Palace on behalf of the Royal Institute of Public Health.

"This was a most eventful year. Following upon the San Francisco disaster which for some time we thought might end in the loss of our fortune, things began to look up and in the end the fire-insurance companies paid all that was due, less 5% for cash payment rec'd within a year of the disaster.

"It was a great satisfaction to be admitted a Fellow at Christ's for I felt that I had at last got into 'the inner circle.' Soon after, I was made Reader in Hygiene, the Lectureship in Bacteriology and Preventive Medicine, previously held being allowed to lapse. Curiously enough I only held this post for 4 days before I was elected to the newly established Quick chair when, in turn, the Readership lapsed, for both the Lectureship and Readership had been personal appointments. When the Readership was established, there had been no thought of my going in for the Professorship, for the conditions under which the latter was to be held had not as yet been determined. However, as time went on, it was decided that the holder of the chair should devote himself to the 'study of the protozoa, especially in relation to disease,' and this being the case I made an application for the post. The decision as to who should be the first holder of the chair was arrived at with some difficulty and a good deal of heart burning. My friends rallied nobly to the charge and I was elected. It is just as well to forget the disagreeable aspects of the campaign for it ended in Victory for me. In my printed application with the friend much matter relating to this event, so important for me & mine for it put me 'upon my legs' again after the San Francisco disaster which strained our finances badly, my income from that source having been cut off for upwards of a year."

Nuttall received honorary degrees from the Universities of California, Strasbourg, Egypt, South Africa, and Liège and was elected corresponding member of many scientific societies. He received also the Belgian Order of Leopold II and the

French Order of Commandeur de la Légion d'Honneur.

On the afternoon of December 16, 1937, Nuttall rushed from Cambridge to London to attend an autograph party at Foyles Bookstore for his son, George, who had coauthored a book with H. M. Hyde on air defense and the civil population. From there he dashed off to an art gallery where the portraits of Philip Alexius Laszlo de Lombos were on display, including one of Nuttall painted in 1932 (see frontispiece). From there he went immediately to the Craven Hotel in Charing Cross where he suffered a fatal heart attack. Unfortunately, it was on the eve of a dinner in his honor to be given by 60 colleagues upon his retirement from his long and successful editorship of the "Journal of Hygiene."

G[raham]-S[mith] and K[eilin] (1938) published Nuttall's obituary with a list of his publications. The following list of additional publications by Professor Nuttall is not meant to be exhaustive because it does not include all abstracts, editorial reviews, or extracts of previous publications, but I have attempted to include most of the notes and longer works not in the 1938 publications list.

Nuttall, G. H. F. 1897. The part played by insects in the spread of plague, and on the receptivity of different animals to plague infection. Vet. Rec. 10: 390-391.

_____. 1899. Nachtrag zu meinem Bericht betreffend "Neure Untersuchungen uber Malaria, Texas-fieber und Tsetsefliegen-Krankheit" in dieser Zeitschr. 1898, No. 22. Hyg. Rundschau 9: 117-118.

_____. 1899. The part played by insects, arachnids, and myriapods in the propagation of infective diseases of man and animals. Vet. Rec. 12: 171-174.

_____. 1899. The poisons given off by parasitic worms in man and animals. Ann. Mag. nat. Hist. 4: 235-236.

_____. 1899. The role of insects, arachnids and myriapods in the propagation of infective diseases of man and animals. Lancet 2: 775-778.

_____. 1900. Upon the part played by mosquitoes in the propagation of malaria. A historical and critical study. J. trop. Med. 2: Title correction of item 39 in Nuttall's (1938) list of publications. [See 3d from last entry in this publication list.]

_____. Haldane, J., & Newsholme, A. 1901. Introduction. J. Hyg. Cambridge 1: 1-2.

_____. 1902. Note on the supposed transmission of plague by fleas and of relapsing fever by bed bugs. J. trop. Med. 5: 65-66.

_____. 1904. Directions for preserving filariae. J. R. Army med. Corps 3: 78.

_____. & Graham-Smith, G. S. 1905. Canine piroplasmiasis. Bull. Inst. Pasteur, Paris 3: 839-840.

_____. 1907. International Society of Tropical Medicine. J. trop. Med. and Hyg. 10: 337-338.

_____. 1907. Redwater fever and allied diseases. Proc. Assoc. econ. Biol. 1: 106.

_____. 1908. Letter to the editor. The International Society of Tropical Medicine. Lancet 1: 1109.

_____. 1909. The Harben lectures, 1908. Spirochaetosis in man and animals. J. trop. vet. Sci. 4: 144-158.

Nuttall, G. H. F. & Hadwen, S. 1910.
The drug treatment of piroplasmosis
in cattle. Vet. J. 17: 38-45.

1911. On haematozoa
occurring in wild animals in Africa.
1. Piroplasma rossi n. sp. and
Haemogregarina canis adusti n. sp.
found in the jackal. 2. Spiro-
chaeta bovis caffris n. sp. found in
the buffalo. J. trop. vet. Sci. 6:
83-90.

1913. Observations on
British rat-fleas, July-October,
1911. Parasitology, Cambridge 6: 1.

1913. Personal opinions of
Professor George H. F. Nuttall,
F.R.S., M.A., M.D., Ph.D., Sc.D.,
regarding the proposed Rockefeller
[sic] Institute for the study of
prevention of disease (by request,
January 1901) [pp. 55, 57-60]. 60
pp. Commercial Press, Bombay.

1913. Scheme for the organi-
zation of an institute for the study
of tropical diseases in India [pp.
37, 39-43]. 60 pp. Commercial
Press, Bombay.

& Strickland, C. 1913.
Report on rat-fleas in Cambridge-
shire. Parasitology, Cambridge 6:
18-19. [The 2d entry above and this
entry are corrections of item 123 in
Nuttall's list of publications; see
3d from last entry in this publica-
tion list.]

1915. Report on the work of
the Quick Laboratory, Cambridge.
Rep. advis. Com. Trop. Dis. Res. Bd.
Lond. (1914): 87-88.

& Hindle, E. 1915. Condi-
tions influencing the transmission
of East Coast fever. Studies
Rockefeller Inst. Med. Res. 20: 1-12.

1917. Foreword to Hindle,
E. Notes on the biology of Pediculus
humanus. Parasitology, Cambridge 9:
259-260.

1921. Notice to authors of
papers intended for publication in
Parasitology. Parasitology, Cam-
bridge 13: [4 unnumbered pages
appearing after p. 192 in issue No.
2.]

1922. Correspondence. The
end of the International Society of
Tropical Medicine. Am. J. trop. Med.
2: 369-370.

1922. Thomas Spencer Cobbold,
biography with portrait. Parasitol-
ogy, Cambridge 14: 417-418, portrait,
pl. 20.

1925. Acarina (Ixodidae).
Bull. Com. Etud. hist. sci. Afr.
occident. Fr. 8: 100-101.

1927. The armorial bearings
of Magdalene College. Magdalene
Coll. Mag. 8: 109-110.

1927. The arms of Thomas
Lord Audley of Walden (1488-1544)
founder of Magdalene College,
Cambridge. Cambridge Antiq. Soc.
Comm. 28: 101-115.

1929. Philip Hedgeland Ross.
Lancet 217: 1284.

1931. Le role pathogene des
tiques. Bruxelles Med. 10: 1359-
1366.

1938. List of scientific
publications (1886-1938). Para-
sitology, Cambridge 30: 409-418.

1940. Notes on the prepa-
ration of papers for publication in
the Journal of Hygiene and in
Parasitology. J. Hyg. Cambridge 40:
1-62.

1940. Notes on the prepa-
ration of papers for publication in
the Journal of Hygiene and in
Parasitology. Parasitology,
Cambridge 32: 1-62.

From George R. F. Nuttall, I purchased
Professor Nuttall's personal set of

annotated reprints in 18 bound volumes. Included in volume X were 3 publications printed for private circulation.

Nuttall, G. H. F. 1906. Application of G. H. F. Nuttall for election to the Quick Professorship of Biology, Cambridge. 21 pp. Printed by John Clay, M.A., at the University Press.

(Undated but between 1909 and 1919). Statement regarding a project to build a field laboratory for research in parasitology in the vicinity of Cambridge. 4 pp. University of Cambridge.

1907-24. Annual report of the Quick Professor, Cambridge. [Reports for 1907, 1910, 1912, 1913, and 1921 are in Nuttall's handwriting, but copies were also undoubtedly printed.]

Explanatory Notes on the Catalogue

Format

I have attempted to reproduce the Nuttall catalogue as a document historically faithful to the original work. In the left-hand column of each page is the catalogue as originally handwritten, including all remarks by Nuttall or his colleagues at Cambridge. Nuttall skipped the numbers 1555, 2101, and 3245-3254. These omissions are noted in the text. I found that the following original catalogue numbers needed to be rearranged: 2211, 2327-2344, 2746, 2905, and 3412 were repeated for completely unrelated collections and I have renumbered them, respectively, 2211Z, 2327Z-2344Z, 2746Z, 2905Z, and 3412Z. Nuttall misnumbered the catalogue item 1242 as 1142, which I have corrected.

At the Molteno Institute, Cambridge University, I was given various notebooks, including an almost complete one-volume copy of the tick catalogue that belonged to Nuttall. Professor Bruce Newton of the Molteno Institute graciously allowed me to deposit this material with Nuttall's tick collection at the British Museum (Nat. Hist.). Among these documents was a notebook entitled "Ticks. Collections Sent Away," which contains the names and addresses of numerous persons (usually parasitologists, teachers, and naturalists), the ticks they received, and the Nuttall number from which the ticks were taken. I have indicated these donations in the remarks section of the original catalogue column because they are part of Nuttall's original records although not so entered into his catalogue.

Nuttall often indicated the date he replied to the donor of a collection (i.e., R.14.VII.1914). In addition, he often entered the abbreviation of an author of a species name (i.e., Ambly. cohaerens Dö.). I have deleted reply dates and abbreviations. Throughout the catalogue he abbreviated names of tick genera, such as Ambly., Boo., Haem., and Hyal. I have given complete names for all tick genera. Also, in some but not

all instances, Nuttall cited a given collection as follows:

N3077 Aponomma trimaculatum ♂'s, N's
(i) ♂'s
(ii) N's

I have eliminated the redundant use of (i) and (ii). With these exceptions and a few minor corrections, all data appearing in the left-hand column are as they appeared in the original version of Nuttall's catalogue.

In his catalogue, Nuttall arranged collection data in seven general categories for each entry as follows: (1) Nuttall number, (2) tick determination, (3) host, (4) locality, (5) date, (6) collector, and (7) remarks. Entry (1) is always present and (2) is rarely absent. The remaining categories are usually included.

In the updated catalogue column, I have added to category (1) a Rocky Mountain Laboratories (RML) number. This number will allow these records to be added into the SELGEM (the acronym derived from SELF-GEnerating Master) information retrieval system of the National Museum of Natural History, Smithsonian Institution. This is a generalized system for information storage, management, and retrieval especially suited for collection management in museums. Often Nuttall neglected to list the number of specimens in a collection. I have added this information to the tick determination using the standard characters: ♂ = male, ♀ = female, N = nymph, and L = larva. Host data are indicated by current species designation whenever possible. Common names are used when applicable or when no other choice is available. Specific localities are given coordinates whenever possible, but where the localities are large areas (viz Queensland, Australia; South Africa), no coordinates are given. I have used the more readily recognizable names of localities rather than the less common, albeit more correct, names. For example, I have used Algiers instead of Alger and Cairo instead of Al-Qahirah. Where a Nuttall tick collection is

missing, all information is given as it appears in the catalogue, and no attempt is made to update or correct any data. The word "MISSING" appears in the update column.

The following abbreviations are used throughout the text:

BMNH	British Museum (Natural History)
C.W.	Cecil Warburton
G.H.F.N.	George H. F. Nuttall
J.E.K.	James E. Keirans
L.E.R.	Lloyd E. Robinson
NB	Nota bene
Nn	L. G. Neumann
RML	Rocky Mountain Laboratories
I.B.E.	(also cited as Imp. Bur. Ent.) Imperial Bureau of Entomology

At the end of the catalogue are four appendixes so that users can locate collection data by type specimens, genus and species of tick, host, and geographical locality.

Tick Determinations

The determination of most immature ticks should be considered tentative. Where nymphs or larvae were part of a reared series, I have given them the same identification as adults. I have made specific identifications of other immatures when I have felt confident of the determination, or where knowledge of immature stages is well known, or both, i.e., many Ornithodoros spp. and certain Ixodes spp.

Haemaphysalis leachi determinations may be considered as H. leachi group. This group of African carnivore parasites consists of H. leachi, H. moreli, H. paraleachi, H. punctaleachi, and H. spinulosa. Separation of these entities was not attempted.

Dermacentor auratus, D. compactus, D. atrosignatus, and at least two other unnamed species are currently under study by H. Hoogstraal and H. Wassef. I have used an unpublished key by these

workers for this group. When their revision of the D. auratus group is published, Nuttall's collections of these taxa will need to be restudied.

In Africa, the Rhipicephalus sanguineus group currently contains R. bergeoni, R. camacasi, R. guilhoni, R. moucheti, R. sanguineus, R. serranoi, R. sulcatus (two ecologically and morphologically distinct entities), and R. turanicus.

The first three species are not well known, and the first two may be present in R. sanguineus collections, especially in the horn of Africa. R. guilhoni is characteristically a North and West African livestock tick and may be widely distributed. R. moucheti is a rare species, known only from a few specimens from Guinea, Benin, and Cameroon.

Biosystematic investigations on the R. sanguineus group are being conducted by R. G. Pegram and coworkers. Specific identification of this group awaits the results of these studies.



Figure 1.--The Nuttall tick catalogue: Volume 1, Nos. 1-800; volume 2, Nos. 801-3500; and volume 3, Nos. 3501-3972.

The Nuttall Tick Catalogue

Volume I, Nos. 1-800

Catalogue of Ticks
collected by
George H.F. Nuttall,
M.A., M.D., Ph.D., Sc.D., F.R.S.
Fellow of Magdalene College,
Quick Professor of Biology in the
University of Cambridge

ORIGINAL DETERMINATION

CURRENT STATUS

N	1	N	1 MISSING
---	---	---	-----------

Dermacentor occidentalis 1 ♂

Wooded country, San Rafael,
California, U.S.A.

VII.1879

Mounted in balsam (transparent)
by G.H.F. Nuttall. (both slides
1 & 2 show ornamentation well by
reflected light) G.H.F.N. & C.W.
det. I.1915

N	2	N	2 MISSING
---	---	---	-----------

Dermacentor occidentalis 1 ♀

Wooded country, San Rafael,
California, U.S.A.

VII.1879

Mounted in balsam (transparent)
by G.H.F. Nuttall.

(both slides 1 & 2 show ornamenta-
tion well by reflected light).
G.H.F.N. & C.W. det. I.1915

ORIGINAL DETERMINATIONCURRENT STATUS

N 3

N 3 MISSING

Boophilus australis larvae
= B. microplus

Cattle

Queensland, Australia

1900

Presented by T. Bowhill

Larvae raised from ♀ taken
from cattle suffering from
piroplasmosis.
Mounted in balsam (transparent)
by G.H.F. Nuttall

N 4

N 4 MISSING

Undetermined genus

Rat

"from my bungalow compound"

Dr. E. H. Hankin was stationed in
Agra, India, which is probably the
locality for this collection. See
also Nuttall 327 and 759. [J.E.K.]

Rec'd 11.IX.1905

Rec'd from Dr. E. H. Hankin

N 5

N 5 MISSING

Undetermined genus

Man, dog, hyaena, cow

Makindu, E. Africa

Rec'd 26.X.1904

Rec'd from Dr. P. H. Ross

ORIGINAL DETERMINATIONCURRENT STATUS

N

6

N

6

RML

105801

Amblyomma cyprum 2 ♂2 ♂ Amblyomma cyprum

"my clothing (trouser)"

Homo sapiens

Join of the River Laloki and Goldie, 12 mi. from Port Moresby [sic] British New Guinea.

Join of the River Laloki and Goldie, 17 km from Port Moresby (09.30 S, 147.10 E), Papua New Guinea.

26.V.1905

26.V.1905

Rec'd from Mr. R.F.L. Burton

Rec'd from Mr. R.F.L. Burton

Mr. Burton writes - "My bearers said, 'louse belong to Boroma,' which probably means "pig-tick."

R.F.L. Burton (1864-1922), educated at Eton, lived many years in New Zealand where he farmed on a large scale.

N

7

N

7

RML

105802

Ixodes hexagonus ♀ (gorged)1 ♀ Ixodes hexagonus

Human

Homo sapiens

Caxton, Cambs., England

Caxton (52.12 N, 0.06 W), Cambs., England

Rec'd V.1905

Rec'd V.1905

Dr. Giles. Rec'd from Dr. G. C. Wherry

Dr. Giles. Rec'd from Dr. G. C. Wherry

Tick had been found attached to the anus of a female servant. An acquaintance reported that "a large live insect had worked its way out of her body through the skin - she sent me word last night (5.VI.1908) - she noticed a lump getting larger and larger for 3 or 4 days, and this was the climax".

ORIGINAL DETERMINATIONCURRENT STATUS

N 8

N 8 MISSING

Haemaphysalis leachi all stages

Dogs

Raised in Cambridge. Rec'd from
Cape Colony, S. Africa

Rec'd II.1904

Sent by C. P. Lounsbury

Mounted by me in 1904 as slides
(Canada balsam)

I - V	♂'s	
VI - IX	♀'s	[13 slides]
X - XII	N's	
XIII	L's	

N 9

N 9

RML 105803

Rhipicephalus sanguineus ♂, ♀5 ♂, 13 ♀, 4 N, 148 L Rhipicephalus
sanguineus1 N Amblyomma sp.

Dog

Dog

India

India

19.I.1906

19.I.1906

Dr. C. W. Daniels

Dr. C. W. Daniels

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	10	N	10
		RML	105804
<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		2 ♀ <u>Rhipicephalus sanguineus</u>	
Dog		Dog	
Barbados, West Indies		Barbados (13.10 N, 59.32 W)	
I.1906		I.1906	
H. H. Brindley		H. H. Brindley	
1 ♂, 1 ♀ to C. Strickland, Malaya		Harold Hulme Brindley (1865-1944) Educated at St. Johns College, Cambridge (Steward 1914-1923, Fellow 1931); a noted authority on the Dermoptera and a historian of nautical evolution.	
N	11	N	11 MISSING
<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s			
Dogs			
Cairo, Egypt			
10.II.1906			
Rec'd from Dr. Edna Steinhardt, 17.II.1906			
The specimens were collected on 10.II.1906, a few hours before death, from a dog which died, after 2 days illness from (presumably) piroplasmiasis. Given to Dr. Steinhardt by Dr. Looss (Cairo).			
N	12	N	12 MISSING
<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s			
Dogs			
Cairo, Egypt			
10.II.1906			
Rec'd from Dr. Edna Steinhardt via Dr. Looss.			

ORIGINAL DETERMINATIONCURRENT STATUS

N	13	N	13	MISSING
	<u>Amblyomma</u> n. sp. ♂, ♀			
	Tortoise			
	Malay Peninsula			
	Dr. H. E. Durhan			
	[London Sch. Trop. Med. No. 214]			
N	14	N	14	MISSING
	<u>Ornithodoros moubata</u> 2 ♂, 2 ♀			
	Harar, Abyssinia			
	V.1901			
	Dr. E. Brumpt			
	Given to me by Dr. Brumpt in			
	Paris, III.1906			
N	15,a	N	15,a	MISSING
	(15) <u>Rhipicephalus bursa</u> ♂, N, L			
	(a) <u>Haemaphysalis cinnabarina</u>			
	var. <u>punctata</u> 1 ♀ laying eggs			
	(labelled <u>R. bursa</u> by Motas!)			
	Sent III.1906			
	Sent by Prof. C. S. Motas,			
	Bucharest, Roumania			

ORIGINAL DETERMINATIONCURRENT STATUS

N 16

Boophilus annulatus ♂, ♀, N

Sent III.1906

Sent by Prof. C. S. Motas,
Bucharest, Roumania

Mounted on 2 slides in balsam

N 16 MISSING

N 17

Hyalomma aegyptium 42 ♂, 6 ♀

Camels

Cairo abattoir, Egypt

29.III.1906

Dr. A. Balfour

N 17

RML 105822

42 ♂, 6 ♀ Hyalomma a. anatolicum
2 ♂ Hyalomma dromedarii

Camelus dromedarius

Abattoir, Cairo (30.03 N, 31.15 E),
Egypt

29.III.1906

Dr. A. Balfour

Sir Andrew Balfour (b1859) was with
Wellcome Research Laboratories in
Khartoum, Sudan and later head of
London School of Hygiene and Trop-
ical Medicine.

N 18

Hyalomma aegyptium

Cattle

Cairo abattoir, Egypt

29.III.1906

Dr. A. Balfour

N 18 MISSING

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	19	N	19
		RML	105823
	<u>Ixodes canisuga</u> ♀		1 ♀ <u>Ixodes canisuga</u>
	Dog		Dog
	Longner Hall, Shrewsbury		Longner Hall, Shrewsbury (52.43 N, 2.45 W), England
	12.IV.1906		12.IV.1906
	R.F.L. Burton		R.F.L. Burton Cited: Nuttall & Warburton (1911: 214).
N	20	N	20
		RML	105824
	Undetermined genus ♂, ♀3		1 ♂, 3 ♀ <u>Hyalomma truncatum</u>
	Giraffe		<u>Giraffa camelopardalis</u>
	Katsina, S. Nigeria, West Africa		Katsina (13.00 N, 7.32 E), Nigeria
	VIII.1905		VIII.1905
	D. Alexander		D. Alexander
N	21b	N	21b
		RML	105825
	<u>Rhipicephalus</u>		1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Sudan		Sudan
	Rec'd. 1.IV.1906		Rec'd. 1.IV.1906
	Rec'd. from Dr. Daniels (London) who in turn got them from Dr. A. Balfour (Khartoum).		Rec'd. from Dr. Daniels (London) who in turn got them from Dr. A. Balfour (Khartoum).
	"Ticks from the Sudan said to be <u>Hyal. aegyptium</u> ."		There is also 1 ♀ <u>Hyalomma truncatum</u> with the Nuttall number 21a but the collection data corresponds to Nuttall number 20.

ORIGINAL DETERMINATIONCURRENT STATUS

N 22

N 22

RML 105826

3 ♂ Amblyomma hebraeum1 ♂ Amblyomma gemma
3 ♂ Amblyomma lepidum

Sudan

Sudan

Rec'd. 1.IV.1906

Rec'd. 1.IV.1906

Rec'd. from Dr. Daniels (London)
who in turn got them from
Dr. A. Balfour (Khartoum).Rec'd. from Dr. Daniels (London)
who in turn got them from
Dr. A. Balfour (Khartoum).

N 23

N 23

RML 105827

Argas miniatus3 ♀ Argas persicus

Sudan

Sudan

Rec'd. 1.IV.1906

Rec'd. 1.IV.1906

Rec'd. from Dr. Daniels (London)
who in turn got them from
Dr. A. Balfour (Khartoum).Rec'd. from Dr. Daniels (London)
who in turn got them from
Dr. A. Balfour (Khartoum).Vial label reads Argas persicus
although Argas miniatus was
entered in the catalogue.

N 24

N 24

RML 105828

Rhipicephalus sanguineus1 ♀ Rhipicephalus sanguineus

Sudan

Sudan

Rec'd. 1.IV.1906

Rec'd. 1.IV.1906

Rec'd. from Dr. Daniels (London)
who in turn got them from
Dr. A. Balfour (Khartoum).Rec'd. from Dr. Daniels (London)
who in turn got them from
Dr. A. Balfour (Khartoum).

ORIGINAL DETERMINATIONCURRENT STATUS

N 25

N 25d

RML 105829

Undetermined genus

18 ♂, 9 ♀ Rhipicephalus
sanguineusDonkey, horse, camel, dog,
and oxDonkey, horse, camel, dog,
and ox

Hyderabad, Sind, India

Hyderabad (25.22 N, 68.22 E),
Sind, Pakistan

15.V.1906

15.V.1906

Dr. Advani

Dr. Advani

Thrown away

ORIGINAL DETERMINATIONCURRENT STATUS

N 26a, b, c, c', d

26a Rhipicephalus evertsi

26b Hyalomma aegyptium

26c Hyalomma aegyptium

26c' Rhipicephalus evertsi

26d Rhipicephalus evertsi

Ox (26a, a'), Horse (26b), Goats and Sheep (26c, c'), Dog (26d)

South Africa

Rec'd. 6.IV.1906

Rec'd. from Dr. B. G. Brock
Germiston, Transvaal, South Africa

N 26a, a', b, c, c', d

RML 105830

26a 2 ♂ Rhipicephalus evertsi
(pinned specimens)

26a 2 ♂ Hyalomma rufipes

26a 7 ♂ Hyalomma truncatum

26a' 1 ♂ Amblyomma hebraeum

26b 1 ♂, 1 ♀ Hyalomma rufipes

26b 1 ♂, 1 ♀ Rhipicephalus evertsi
(pinned specimens)

26c 9 ♂, 10 ♀ Hyalomma truncatum
(including 1 ♂ in tick abnormalities jar)

26c' 2 ♀ Rhipicephalus evertsi
(pinned specimens)

26d 1 ♀ Rhipicephalus simus

26d 6 ♂, 6 ♀ Hyalomma truncatum

Ox (26a, a'), Horse (26b), Goats and Sheep (26c, c'), Dog (26d)

Republic of South Africa

Rec'd. 6.IV.1906

Rec'd. from Dr. B. G. Brock,
Germiston, Transvaal, S. Africa

The abnormal ♂ Hyalomma truncatum was figured in Robinson (1920: 178). He indicated the specimen was from a goat, Germiston, Transvaal, S. Africa, 6.IV.1918.

26a' was not entered in Nuttall's catalogue.

ORIGINAL DETERMINATIONCURRENT STATUS

N	27	N	27a, b
		RML	105831
	<u>Hyalomma aegyptium</u> ♂, ♀		27a 40 ♂, 4 ♀ <u>Hyalomma marginatum</u>
			27b 3 ♀ <u>Rhipicephalus sanguineus</u>
	Cattle		Cattle
	Campagna Romano, Italy		Campagna di Roma (41.54 N, 12.29 E), Italy
	4-10.V.1906		4-10.V.1906
	Dr. B. Gosio		Dr. B. Gosio
N	28	N	28b
		RML	105832
	<u>Hyalomma aegyptium</u>		4 ♂, 3 ♀ <u>Rhipicephalus sanguineus</u>
	Cattle		Cattle
	Campagna Romano, Italy		Campagna di Roma (41.54 N, 12.29 E), Italy
	27.IV - 3.V.1906		27.IV - 3.V.1906
	Dr. B. Gosio		Dr. B. Gosio
	Dr. Gosio writes from Rome 12.V.1906, "Alles hängt von ver Viehart ab welche hierher gebracht wird gewöhnlich untersuche ich die Rinder des Schlachthausen. Bald wird Sardinienvich in grossen Maassstabe eingebührt. Dann werden sie sicher eine sehr grosse Anzahe von Zecken eralten, auch in cetrudizen Zustande."		Dr. Gosio writes from Rome 12.V.1906, "It all depends on the kind of cattle brought here. Usually I examine the slaughter house cattle. Soon there will be an import of Sardinian cattle on a large scale. Then they will receive a very large number of ticks, also in (cetrudizen ?) condition."

ORIGINAL DETERMINATIONCURRENT STATUS

N 29 a, b

N 29 a, b

RML 105833

(29a) Amblyomma petersi 1 ♂29a 1 ♂ Amblyomma rhinocerotis(29b) Dermacentor rhinocerotis
3 ♂, 2 ♀29b 2 ♂, 1 ♀ Dermacentor rhinocerus

Rhinoceros

Diceros bicornis (probably)Nimule, Nile Province, Uganda
ProtectorateNimule (3.36 N, 32.03 E), Equatoria
Province, Sudan (on Sudan-Uganda
border)

22.III.1906

22.III.1906

Dr. W. A. Densham

Dr. W. A. Densham

Dr. Densham wrote, "They were not
attached firmly like most ticks
and I watched them for some time
as they moved about over the skin."
[♂, ♀ mounted dry in cell on a
slide]

All of the above are pinned specimens.
Slides missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N 30

N 30

RML 105834

Hyalomma aegyptium ♂'s, ♀'s20 ♂, 56 ♀ Hyalomma dromedarii

Camels

Camelus dromedarius

Biskra, Algeria, North Africa

Biskra (24.50 N, 5.52 E), Algeria

4.I.1906

4.I.1906

B. H. Soulsby

B. H. Soulsby

[♂'s found on neck, ♀'s on belly
and under shoulder.]

Collection in two vials.

1 ♀ to Prof. Hewlett,
Kings College, London 6.III.1907.1 ♀ to Dr. H. deB. Aragão,
Brazil 23.I.1910.1 ♂, 1 ♀ to Dr. J. G. Parham,
Portuguese East Africa 18.IV.1910.1 ♂, 1 ♀ to N. Y. National
Museum 18.IV.19101 ♂, 1 ♀ to Prof. Dr. Dahl,
Berlin Museum VII.1914.1 ♂, 1 ♀ to Prof. Dr. Schenkling,
Deutsches Entomol. Museum VII.1914.1 ♂, 1 ♀ to Prof. Dr. Gestro,
Museo Civico di Stori Nat. Genova
VII.1914.4 ♂, 12 ♀ to Prof. Wheeler,
Boston, Mass. 20.II.1915.

ORIGINAL DETERMINATIONCURRENT STATUS

N	31	N	31
		RML	105835
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s N's		43 ♂, 15 ♀ <u>Rhipicephalus sanguineus</u> 1 ♂ <u>Haemaphysalis bispinosa</u>
	Dogs		Dogs
	S. Sylhet, India		S. Sylhet (24.54 N, 91.52 E), India
	5.IX.1904		5.IX.1904
	Dr. A. B. Dalgetty		Dr. A. B. Dalgetty
	[2 slides, balsam mounts (I) ♂, ♀, (II) N's]		Slides missing
	<u>R. sanguineus</u> were sent to the following:		
	1 ♂, 1 ♀ to Prof. G. H. Carpenter, Royal College of Sciences, Dublin 19.I.1910.		
	1 ♂, 1 ♀ to Dr. G. S. Graham, Smith Medical Schools, Cambridge 19.I.1910.		
	1 ♂, 1 ♀ to E. E. Green, Government Entomologist, Ceylon 19.I.1910.		
	1 ♂, 1 ♀ to Dschunkowsky, Transcaucasus 19.I.1910.		
	1 ♂, 1 ♀ to Dr. H. deB. Aragão, Brazil, 23.I.1910.		
	Sex/stage unknown to Dr. Longin, Navas, Zaragoza, Spain 28.V.1913.		
N	32	N	32
		RML	105836
	Undetermined genus		1 L <u>Ornithodoros</u> sp.
	Rat		Rat
	Agra, India		Agra (27.11 N, 78.01 E) India
	Rec'd 11.IX.1905		Rec'd 11.IX.1905
	Rec'd from Dr. E. H. Hankin		Rec'd from Dr. E. H. Hankin

ORIGINAL DETERMINATIONCURRENT STATUS

N 33

N 33

RML 105837

Boophilus australis2 ♂, 6 ♀, 3 N, 37 L Boophilus microplus

Cattle

Cattle

India

India

1906

1906

Capt. J.D.E. Holmes

Capt. J.D.E. Holmes

Ticks from Lt. Col. C. E. Nuthall, A.V.D., sent to me (G.H.F.N.) by Colonel B. Skinner, R.A.M.C. (War Office, 68 Victoria Street, London, S.W.) 12.I.1906:

N 34a

N 34a

RML 105838

Boophilus australis19 ♂, 14 ♀, 10 N Boophilus microplus

Bowen, N. Queensland

Bowen (20.01 S, 148.15 E),
Queensland, Australia

Sent 12.I.1906

Sent 12.I.1906

Lt. Col. C. E. Nuthall, A.V.D.

Lt. Col. C. E. Nuthall, A.V.D.

3 ♂ mounted in balsam on 3 slides

Slides missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N 34b

N 34b

RML 71482

Boophilus australis ♂'s24 ♂, 2 N Boophilus microplus
1 ♀ Haemaphysalis intermedia

Cattle

Cattle

Wellington District S. India

Wellington (11.22 N, 76.48 E)
India

Sent 12.I.1906

Sent 12.I.1906

Lt. Col. C. E. Nuthall, A.V.D.

Lt. Col. C. E. Nuthall, A.V.D.

There is a tick collection with the Nuttall number 34(2) that Prof. Nuttall did not enter into his catalogue containing the following ticks and data:

1 ♂, 1 ♀ Haemaphysalis bispinosa
Wellington, S. India sent 12.I.1906
Lt. Col. C. E. Nuthall
I believe this collection belongs with Nuttall 34b and am assigning it RML 71482.

N 34c

N 34c

RML 105839

Haemaphysalis bispinosa ♂, ♀1 ♂ Haemaphysalis bispinosa

Coimbatore District S. India

Coimbatore District (11.15 N,
77.20 E) India

Sent 12.I.1906

Sent 12.I.1906

Lt. Col. C. E. Nuthall, A.V.D.

Lt. Col. C. E. Nuthall, A.V.D.

ORIGINAL DETERMINATIONCURRENT STATUS

N 34d

N 34d

RML 71472

Haemaphysalis bispinosa var.
intermedia3 ♀ Haemaphysalis bispinosa
8 ♀ Haemaphysalis intermedia

Bangalore & Mysore Dist. India

Bangalore District (12.53 N,
77.30 E) and Mysore State (13.30 N,
76.45 E), India

Sent 12.I.1906

Sent 12.I.1906

Lt. Col. C. E. Nuttall, A.V.D.

Lt. Col. C. E. Nuttall, A.V.D.

There is a tick collection with
Nuttall 34.4 that Prof. Nuttall
did not enter into his catalogue
containing 1 ♀ Rhipicephalus
haemaphysaloides. I am assigning
it RML 71472.

The Haemaphysalis intermedia
collection cited: Hoogstraal
& Trapido (1963: 838).

N 34e

N 34e

RML 105840

Boophilus australis ♀'s26 ♀ Boophilus microplus

Bangalore & Mysore Dist. India

Bangalore Dist. (12.53 N, 77.30 E)
and Mysore State (13.30 N, 76.45 E)
India

Sent 26.I.1906

Sent 26.I.1906

Lt. Col. C. E. Nuttall, A.V.D.

Lt. Col. C. E. Nuttall, A.V.D.

ORIGINAL DETERMINATIONCURRENT STATUS

N 34f

N 34f

RML 105841

Ornithodoros savignyi34 ♀, 2 N Ornithodoros savignyiSecunderabad and Hyderabad
Districts, IndiaSecunderabad (17.27 N, 78.30 E)
and Hyderabad (18.00 N, 78.00 E)
Districts, India

Sent 12.I.1906

Sent 12.I.1906

Lt. Col. C. E. Nuthall, A.V.D.

Lt. Col. C. E. Nuthall, A.V.D.

N 34g

N 34g

RML 105842

Rhipicephalus haemaphysaloides1 ♂, 2 ♀ Rhipicephalus haemaphysaloidesSecunderabad and Hyderabad
Districts, IndiaSecunderabad (17.27 N, 78.30 E)
and Hyderabad (18.00 N, 78.00 E)
Districts, India

Sent 12.I.1906

Sent 12.I.1906

Lt. Col. C. E. Nuthall, A.V.D.

Lt. Col. C. E. Nuthall, A.V.D.

Vial label reads, "Rhipicephalus
haemaphysaloides, var. expeditus
fide, Neumann letter of 12.X.1907"

ORIGINAL DETERMINATIONCURRENT STATUS

N 34h

N 34h

RML 71474

Haemaphysalis bispinosa
var. intermedia

25 ♀ Haemaphysalis intermedia

Secunderabad and Hyderabad
Districts, India

Secunderabad (17.27 N, 78.30 E) and
Hyderabad (18.00 N, 78.00 E)
Districts, India

Sent 12.I.1906

Sent 12.I.1906

Lt. Col. C. E. Nuthall, A.V.D.

Lt. Col. C. E. Nuthall, A.V.D.

2 ♀ to Dr. L. O. Howard, U.S.
Dept. Agriculture, Washington, D.C.,
21.V.1909

There is a collection - Nuttall 34
3 ♀ Hyalomma marginatum turanicum
and Nuttall 34.8 3♂, 2 ♀ Hyalomma
anatolicum anatolicum that Prof.
Nuttall did not enter in his
catalogue both containing all the
above collection data. I am assigning
both collections RML 71474.

The H. a. anatolicum collection was
cited by Kaiser & Hoogstraal (1964:
272) as 4 ♂, 2 ♀. Only 3 ♂, 2 ♀
were present in 1978.

The H. intermedia collection was
cited by Hoogstraal & Trapido
(1963: 838).

ORIGINAL DETERMINATIONCURRENT STATUS

Ticks received from the Zoological Gardens, London, N.W., during 1905:

N 35

N 35

RML 61047

Hyalomma aegyptium ♂'s, ♀'s

6 ♂, 10 ♀ Hyalomma dromedarii

Camelus dromedarius

Camelus dromedarius

Aden, Arabia

Peoples Democratic Republic of
Yemen (Aden)

30.XI.1905

30.XI.1905

1 ♂, 1 ♀ sent to Prof. Dryer,
Parasitology Dept., Oxford,
1 ♂, 1 ♀ sent to W. D. Hunter, USDA,
Washington
1 ♂, 1 ♀ sent to Dr. de Blieck,
Java 22.I.1915.

An additional 2 ♀ are in the Rocky
Mountain Laboratory collection
(Bishopp No. 430)

N 36

N 36

RML 105843

Amblyomma nodosum ♂'s
TYPE SPECIMENS

7 ♂ Amblyomma nodosum
(3 ♂ on slides)
(2 ♂ pinned)
(2 ♂ in alcohol)

Lectotype and paralectotypes of
Amblyomma uncatum

Tamandua tetradactyla
(Tamandua anteater)

Tamandua tetradactyla

South America

South America

22.XII.1906

22.XII.1906

3 ♂'s & parts of ♂ mounted in
balsam on 5 slides
1 ♂ sent to A. S. Hirst B.M. (N.H.)

3 ♂'s mounted on slides plus 2
slides as follows:
1. capitulum and leg IV of ♂
2. chelicera and hypostome of ♂
2. ♂ pinned specimens. Original
description, Nuttall & Warburton
(1908: 412); Robinson (1926: 199)
cited this collection as A. nodosum.
Lectotype designated: Keirans &
Brewster (1981: 157).

ORIGINAL DETERMINATIONCURRENT STATUS

N 37

N 37

RML 105844

Aponomma exornatum ♂'s, ♀'s11 ♂, 2 ♀ Aponomma exornatumVaranus exanthematicusVaranus exanthematicus

West Africa

West Africa

23.XI.1905

23.XI.1905 (date on vial label
is 13.V.1905)2 ♂'s mounted in cells with other
AponommaSlide missing. Santos Dias (1958:
519-520) indicated the number of
males as 10.

N 38

N 38

RML 105845

Aponomma gervaisi ♂'s, ♀'s7 ♂ Aponomma gervaisi(Varanus bengalensis)
Bengal monitorVaranus bengalensis

India

India

6.XI.1905

6.XI.1905

ORIGINAL DETERMINATIONCURRENT STATUS

N 39

N 39

RML 105846

Aponomma laeve ♂, ♀2 ♂, 2 ♀ Aponomma latum
1 ♂ Aponomma pattoni(Python regius)
Royal pythonPython regius

West Africa

West Africa

1.XII.1905

1.XII.1905

The finding of the Asian species
A. pattoni in a West African
 collection of A. latum must be the
 result of a mix-up either at the
 London Zoo or in Nuttall's laboratory.

N 40

N 40

RML 105847

Amblyomma dissimile 3 ♂3 ♂ Amblyomma dissimile(Iguana tuberculata)
Tuberculated iguanaIguana tuberculata

Tropical America

Tropical America

7.XII.1905

7.XII.1905

ORIGINAL DETERMINATIONCURRENT STATUS

N 41

N 41

RML 105848

Aponomma gervaisi 4 ♂, 2 ♀, N's
var. lucasi4 ♂, 2 N Aponomma varanensis(Eryx conicus)
Conical eryxEryx conicus
(name not verified)

India

India

29.X.1905 (arrived at Zool. Soc.
Gardens 13.III.1905)29.X.1905 (arrived at Zool. Soc.
Gardens 13.III.1905)Original determination by Neumann in
1907 was Aponomma exornatum.
Redetermined by C. Warburton. (See
descr. of Apon. g. var. 1. in Dec.
1910 Parasitology 3: 406.)

N 42

N 42

RML 105849

Aponomma decorosum13 ♂ Aponomma decorosum(Varanus gouldi)
Gouldi monitorVaranus gouldi

Australia

Australia

1905

1905

ORIGINAL DETERMINATION

N 43

Amblyomma clypleolatum ♂'s(Testudo elegans)
Starved tortoise

India

2.X.1905

Type specimens of Amblyomma
atrogenatum[♂ capitulum in balsam on a slide]
1 ♂ to A. S. Hirst, B.M. (N.H.)CURRENT STATUS

N 43

RML 105850

5 ♂ Amblyomma clypleolatumLectotype and paralectotypes of
A. atrogenatumGeochelone elegans

India

2.X.1905

Total includes 1 ♂ pinned.
Nuttall & Warburton (1908: 410)
and Robinson (1926: 81) indicated
that the host was received at the
Zoological Gardens, London 14.VIII.1905
and the ticks removed 2.X.1905.An empty token tube indicates a
slide mount of a ♂ but slide
missing 1977.Lectotype designated: Keirans &
Brewster (1981: 155).

ORIGINAL DETERMINATIONCURRENT STATUS

N 44

N 44

RML 18591

Aponomma exornatum ♂'s, ♀'s36 ♂ Aponomma exornatum(Varanus niloticus)Varanus niloticus

Nilotic monitor

Africa

Africa

28.XI.1905 (host arrived at Zool.
Soc. Gardens 31.VIII.1905)28.XI.1905 (host arrived at Zool.
Soc. Gardens 31.VIII.1905)1 ♂ 1 ♀ to Prof. Kellogg, Stanford
University1 ♂ 1 ♀ to Dr. H. deB. Aragão,
Brazil, 23.I.19101 ♂ 1 ♀ to Col. A. Alcock, London
School Trop. Med. 26.I.19102 ♂ to Dr. J. G. Parkham, Portuguese
East Africa 18.IV.1913

2 ♂ to N.Y. National Museum 18.IV.1913

2 ♂ 1 ♀ to Prof. R. A. Cooley, Montana
V.1928There are an additional 2 ♂, 1 ♀ of
this collection sent to Prof. R. A.
Cooley, now in the Rocky Mountain
Laboratory collection (RML 22405).

ORIGINAL DETERMINATIONCURRENT STATUS

N 45

N 45

RML 105851

Aponomma gervaisi ♀1 ♀ Aponomma gervaisi(Varanus griseus)

Grey monitor

Varanus griseus

North Africa

North Africa

20.XII.1905

20.XII.1905

1 ♀ mounted on slide

The collecting locality is incorrect.

Slide missing.

N 46a, b

N 46a, b

RML 105852

(a) Hyalomma aegyptium ♂'s, ♀'s(a) 26 ♂, 9 ♀, 10 N Hyalomma
anatolicum excavatum(b) Boophilus annulatus ♂, ♀(b) 2 ♂ Boophilus annulatus

Egyptian cattle

Egyptian cattle

Egypt

Egypt

IV.1906

IV.1906

Rec'd from Dr. W. Littlewood,
Sanitary Dept., Cairo, EgyptRec'd from Dr. W. Littlewood,
Sanitary Dept., Cairo, Egypt

♂ & ♀ mounted in balsam on slide.

Slide missing.

1 ♂, 1 ♀ Hyalomma aegyptium to
Sheffield University 30.VI.1907.1 ♂, 1 ♀ to Prof. B. Galli-Valerio,
Lausanne, Switzerland 14.III.1912.1 ♂, 1 ♀ to Prof. Dr. M. Miyajima,
Tokio, Japan 7.III.1912.1 ♂, 1 ♀ to Dr. G. L. Tuck, Tientsin,
China 17.II.1912.1 ♂, 1 ♀ to A. H. Cockayne, Wellington,
New Zealand.

ORIGINAL DETERMINATIONCURRENT STATUS

N 47

N 47

RML 105853

Rhipicephalus sanguineus ♂'s, ♀'s1 ♂, 3 ♀, 1 N Rhipicephalus sanguineus

Dog

Dog

Barbados, West Africa

Barbados Island (13.10 N, 59.32 W)

V.1901

V.1901

Dr. G. C. Low

Dr. G. C. Low

Catalogue incorrectly reads West Africa instead of West Indies.

N 48a, b

N 48a, b

RML 105854

(a) Rhipicephalus pulchellus ♀'s(b) Haemaphysalis leachi(a) 3 ♀ Rhipicephalus pulchellus

(b) MISSING

Dog

Dog

Makindu, East Africa

Makindu(02.17 S, 37.49 E) Kenya

10.XI.1904

10.XI.1904

Dr. P. H. Ross

Dr. P. H. Ross

Philip Hedgeland Ross (1876-1929)
 Born Christchurch, New Zealand, he
 spent his active career in Africa
 working on trypanosomiasis,
 relapsing fever, and malaria.
 For an obituary see Nuttall (1929).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	49	N	49 MISSING
	<u>Rhipicephalus</u> sp.		
	Dog		
	Makindu, East Africa		
	10·XI·1904		
	Dr. P. H. Ross		
	bad condition - thrown away		
N	50	N	50
	<u>Rhipicephalus pulchellus</u>	RML	105855
	Striped hyaena		2 ♂, 3 ♀ <u>Rhipicephalus pulchellus</u>
	Simba, East Africa		<u>Hyaena hyaena</u>
	13·X·1904		Simba (2.10 S, 37.36 E) Kenya
	P. H. Ross		13·X·1904
			P. H. Ross
N	51	N	51
	<u>Rhipicephalus pulchellus</u> ♀	RML	105856
	Off?		1 ♀ <u>Rhipicephalus pulchellus</u>
	Makindu, East Africa		Off?
	10·XI·1904		Makindu (2.17 S, 37.49 E), Kenya
	P. H. Ross		10·XI·1904
			P. H. Ross

ORIGINAL DETERMINATIONCURRENT STATUS

N	52	N	52
		RML	105857
	<u>Margaropus winthemi</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Margaropus winthemi</u>
	Cape Colony, South Africa		Cape Colony, Republic of South Africa
	About 1907		About 1907
	Rec'd from Mr. C. P. Lounsbury		Rec'd from Mr. C. P. Lounsbury
	It was from this lot that Neumann described <u>M. lounsburyi</u> in 1907.		Probable syntypes of <u>M. lounsburyi</u>
N	53	N	53
		RML	105858
	<u>Argas persicus</u> larvae and eggs		100+ larvae <u>Argas persicus</u>
	Raised on fowls		Raised on fowls
	Cambridge		Cambridge (52.13 N, 00.08 E), England
	Probably S. African strain (not noted)		Probably S. African. Raised in Cambridge, England
	1902		1902
N	54	N	54
		RML	105859
	<u>Boophilus australis</u>		5 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Queensland, Australia		Queensland, Australia
	1906		1906
	C. J. Pound		C. J. Pound
	(ex E. G. Wheler coll.)		

ORIGINAL DETERMINATION

N 55

Ixodes sp.

Dog

Bonn, Germany

XI.1903

G. H. F. Nuttall

N 56

Ixodes sp.

Dog

Bonn, Germany

XI.1903

G. H. F. Nuttall

N 57

Ixodes ricinus

Found on Dr. Nuttall, his son and
a relative

Kittendorf, Mecklenburg, Germany

IX.1905

Dr. Nuttall

CURRENT STATUS

N 55

RML 105860

3 ♀ Ixodes hexagonus

Dog

Bonn (50.44 N, 7.05 E)
Federal Republic of Germany

XI.1903

G. H. F. Nuttall

N 56

RML 105861

2 ♀, 2 N Ixodes hexagonus

Dog

Bonn (50.44 N, 7.05E)
Federal Republic of Germany

XI.1903

G. H. F. Nuttall

N 57 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 58
Roe-deer
Kittendorf, Mecklenburg, Germany
13.IX.1905
Dr. Nuttall

N 58 MISSING

N 59a, b

(a) Hyalomma aegyptium
(b) Rhipicephalus sanguineus

Cattle
Rome, Italy
Rec'd 21.VI.1906
Rec'd from Dr. Gosio
(59b) 1 ♂, 1 ♀ to Sheffield
University 3.VI.1907

N 59a, b

RML 105862

(a) MISSING
(b) 1 ♀ Rhipicephalus sanguineus
(b) 1 ♀ Rhipicephalus bursa

Cattle
Rome (41.54 N, 12.29 E), Italy
Rec'd 21.VI.1906
Rec'd from Dr. Gosio

N 60

Ixodes hexagonus N's
Hedgehog
Cambridge, England
10.VII.1904

Hedgehog kept in the laboratory
some days

2 N sent to Prof. Matheson,
Cornell, 27.V.1929

N 60

RML 105863

10 N, 1 L Ixodes hexagonus
Erinaceus europaeus
Cambridge (52.13 N, 0.08 E), England
10.VII.1904

G.H.F. Nuttall

Cited: Nuttall & Warburton (1911:
182).

ORIGINAL DETERMINATIONCURRENT STATUS

N 61 N 61 MISSING

Ixodes sp.

No data

Rec'd from Mr. E. G. Wheeler

N 62 N 62 MISSING

2 ♀ Ixodes canisuga

Dog

Sligo, Ireland

16.IX.1905

Rec'd from A.E.F. Nuttall

16.IX.1905

N 63 N 63 MISSING

Ixodes sp.

Young rat

Longner Hall, Shrewsbury, England

20.IV.1906

R.F.L. Burton

ORIGINAL DETERMINATIONCURRENT STATUS

N 64
Ixodes hexagonus ♀'s
 Sheep
 Lydd, Kent, England
 1905
 Thrown away, badly preserved 27.V. 1908
 G.H. Nuttall
 Ticks received from Dr. Gosio, Rome, Italy
 27.VI.1906:

N 65
 65 Hyalomma aegyptium
 Cattle
 Rome, Italy
 VI.1906
 Dr. Gosio

N 64 MISSING

N 65, b
 RML 105864
 (65) MISSING
 (b) 2 ♀ Rhipicephalus bursa
 (b) 1 ♂, 1 ♀ Rhipicephalus sanguineus
 Cattle
 Rome (41.54 N, 12.29 E), Italy
 VI.1906
 Dr. Gosio
 Nuttall 65b was not entered in the
 catalogue.

ORIGINAL DETERMINATIONCURRENT STATUS

N 68, a

N 68, a

RML 105867

(68) Rhipicephalus bursa ♂'s, ♀'s
 (a) Rhipicephalus sanguineus ♀'s

(68) 5 ♂, 9 ♀ Rhipicephalus bursa
 (68) 17 ♂, 5 ♀ Hyalomma marginatum
 (a) 6 ♀ Rhipicephalus sanguineus
 Cattle

Cattle

Rome, Italy

Rome (41.54 N, 12.29 E), Italy

VI.1906

VI.1906

Dr. Gosio

Dr. Gosio

1 ♂, 1 ♀ on slide in balsam

Slide missing.
 The Hyalomma collection was not
 entered into the catalogue by
 Nuttall.

N 69

N 69

RML 105868

Hyalomma syriacum ♂, ♀3 ♂ Hyalomma aegyptium

Tortoise

Tortoise

Cambridge, England

Cambridge (52.13 N, 0.08 E),
England

IX.1902

V.1904

Mr. Child, presented to
 G.H.F. Nuttall by Dr. Graham-Smith

Mr. Child, presented to G.H.F. Nuttall
 by Dr. Graham-Smith

See 2 slides

Slides missing.
 Vial label date is V.1904.
 Catalogue date was V.1904 but
 crossed out and IX.1902 inserted.

ORIGINAL DETERMINATIONCURRENT STATUS

N 70

N 70

RML 105869

Amblyomma cooperi 1 ♂, ♀
TYPES2 ♂, 6 ♀ Amblyomma cooperi
Lectotype and Paralectotypes(Hydrochoerus capybara)
"Carpinchio"Hydrochoerus hydrochaerisPuerto Cooper, Alto
Paraguay, S. AmericaPuerto Cooper (23.03 S, 57.43 W),
Alto, Paraguay, S. America

1904

1904

W. F. Cooper

W. F. Cooper

♀ mounted in balsam on 2 slides
Pinned specimensSlides present.
Nuttall & Warburton (1908: 410)
original description. On p. 412
they indicated 1 ♂, 5 ♀ in collection.
Robinson (1926: 75) indicated more
than 1 ♂ but did not give total.Lectotype designated: Keirans &
Brewster (1981: 155).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	71	N	71
		RML	105870
<u>Ornithodoros moubata</u> unfed 1st stage N's (No data noted)		20 N <u>Ornithodoros moubata</u> (No data noted)	
Raised from lot received probably from British East Africa.		Raised from lot received probably from Kenya.	
Raised 1912		Raised 1912	
N	72	N	72
		RML	105871
<u>Haemaphysalis hystrix</u> 1 ♀		1 ♀ <u>Haemaphysalis celebensis</u> Holotype	
<u>Sus celebensis</u>		<u>Sus verrucosus celebensis</u>	
Celebes		Sulawesi (2.00 S. 121.00 E), Indonesia	
Presented by Hon. N. C. Rothschild as a mounted specimen (No. 916) which we unmounted 4.I.1915 C.W. det.		Presented by Hon. N. C. Rothschild as a mounted specimen (No. 916) which we unmounted 4.I.1915. C.W. det.	
		Cited: Nuttall & Warburton (1915: 425, 426); Hoogstraal et al. (1965d; 1001; 1973a: 556). Nathaniel Charles Rothschild (1877- 1923) wealthy banker who also had a keen love of nature especially the Lepidoptera and the ectoparasitic insects.	
		All collections presented by Rothschild to Nuttall and to the BM(NH) are discussed by Keirans (1982).	

ORIGINAL DETERMINATIONCURRENT STATUS

N 73

N 73

RML 105872

Amblyomma cyprium 1 ♂1 ♂ Amblyomma cypriumSus celebensisSus verrucosus subsp.

Celebes

Sulawesi (2.00 S, 121.00 E),
Indonesia

Presented by Hon. N. F. Rothschild
as a slide "No. 915" which is
unmounted, being defraction
5.I.1915.

Presented by Hon. N. C. Rothschild
as a slide "No. 915" which is
unmounted, being defraction
5.I.1915.

3 ♂ Amblyomma cyprium mounted as
slides, 2 transparent, 1 opaque -
see slides No. 73 (i) (ii) (iii)
(Rothschild No's. 917, 919, 920,
(3 slides)
(L. E. Robinson det. 26.I.1915)
Redet. 26.II.1919.

3 slide-mounted males missing.

Cited: Robinson (1926: 236).

ORIGINAL DETERMINATIONCURRENT STATUS

N 74

N 74

RML 105873

Amblyomma? caelaturum 1 N1 N Amblyomma sp.Sus celebensisSus verrucosus subsp.

Celebes

Sulawesi (2.00 S, 121.00 E),
IndonesiaPresented by Hon. N. C. Rothschild
No. 918Presented by Hon. N. C. Rothschild
No. 918

L.E.R. det. 26.I.1915

N 75

N 75 MISSING

Amblyomma clypeolatum 3 ♂ slides

Tortoise

Zoological Society's Gardens, London

11.X.1895

Presented by Hon. N. C. Rothschild

Mounted (i) opaque & (ii) (iii)
transparent on 3 slides No's. 1015,
1017, 1019.

L.E.R. det. 26.III.1919.

ORIGINAL DETERMINATIONCURRENT STATUS

N 76 N 76 MISSING

Amblyomma sp. 1 ♀ slide

Monitor

Kalao Island

[See also N 93]

From Hon. N. C. Rothschild
No. 964

Mounted opaque on slide.

N 77 N 77 MISSING

Amblyomma marmoreum 3 ♂ slides

Testudo pardalis
(Leopard tortoise)

No further data, mounted as
transparent specimens on slides
No's. 1033, 1034, 1035.

Presented by Hon. N. C. Rothschild

L.E.R. det. 26.III.1919.

N 78 N 78 MISSING

Amblyomma albolimbatum 1 ♂, 2 ♀ slides

Black and white snake

No further data

30.I.1896

Presented by Hon. N. C. Rothschild
Specimens No's. 997, 996, 999.

L.E.R. det. 26.III.1919.

ORIGINAL DETERMINATIONCURRENT STATUS

N	79a, b	N	79a, b
		RML	105778
	(a) <u>Boophilus decoloratus</u> ♀'s		(a) 1 ♂, 56 ♀ <u>Boophilus decoloratus</u>
	(b) <u>Amblyomma hebraeum</u> ♂'s		(a) 1 ♂ <u>Hyalomma marginatum</u> <u>turanicum</u>
	Cattle		(b) <u>MISSING</u>
	Rustenburg, Transvaal, South Africa		Cattle
	V.1905		Rustenburg (25.40 S, 27.15 E), Transvaal, Republic of South Africa
	Dr. B. Brock		V.1905
			Dr. B. Brock
N	80	N	80
		RML	105874
	<u>Ixodes hexagonus</u> ♀		1 ♀, many eggs <u>Ixodes hexagonus</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	In laboratory Cambridge, England		In laboratory, Cambridge (52.13 N, 00.08 E), England
	26.VII.1904		26.VII.1904
	G.H.F. Nuttall		G.H.F. Nuttall
N	81	N	81 MISSING
	<u>Ixodes hexagonus</u> ♀'s		
	Dog		
	Northumberland, England		
	1904		
	Thrown away, bad condition.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 82

Ixodes hexagonus larvae

Raised in laboratory Cambridge
Progeny of ♀ No. 81

[2 larvae mounted in balsam on
a slide]

N 82

RML 105875

41 L Ixodes hexagonus

Raised in laboratory, Cambridge
(52.13 N, 0.08 E), England

Slide missing.

N 83

Ixodes ricinus

Sheep

Scotland

1904

Rec'd from Mr. W. F. Cooper
(Watford)

N 83 MISSING

N 84

Hyalomma aegyptium ♂, ♀

Horse

Cairo abattoir, Egypt

13.IV.1906

Rec'd from Dr. Little

1 ♂, 1 ♀ to W. S. Patton
14.I.1910

N 84

RML 105876

10 ♂, 5 ♀ Hyalomma anatolicum excavatum

Horse

Abattoir, Cairo (30.30 N, 31.15 E),
Egypt

13.IV.1906

Rec'd from Dr. Little

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	85	N	85
		RML	105877
	<u>Hyalomma aegyptium</u>		5 ♀ <u>Hyalomma anatolicum excavatum</u>
	Cattle		Cattle
	Cairo abattoir, Egypt		Abattoir, Cairo (30.30 N, 31.15E), Egypt
	29.III.1906		29.III.1906
	Dr. Little		Dr. Little
N	86	N	86
		RML	105878
	<u>Amblyomma lepidum</u> ♂'s, ♀'s		5 ♂, 7 ♀ <u>Amblyomma lepidum</u>
	Cattle		Cattle
	East London, Cape Colony, S. Africa		East London (33.02 S, 27.55 E), Cape Colony, South Africa
	1.V.1905		1.V.1905
	Dr. Williamson		Dr. Williamson
	1 ♂, 1 ♀ mounted in cells on slide II.1915.		Slide missing.
	1 ♂, 1 ♀ to Prof. R. Matheson, Cornell University 27.V.1929		
N	87	N	87
		RML	105879
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		3 ♂, 10 ♀, 4 N <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Dominica, West Indies		Dominica (15.30 N. 61.20 W), West Indies
	ex E. G. Wheler collection		ex E. G. Wheler collection

ORIGINAL DETERMINATIONCURRENT STATUS

N 88

N 88 MISSING

Ixodes tenuirostris 1 ♂Toft, near Grantchester
Cambs., England

III.1904

Presented by N.D.F. Pearce, M.A.

[mounted on cell in balsam on a slide]

N 89

N 89

RML 105880

Amblyomma marmoreum 2 ♂2 ♂ Amblyomma sparsum

Southern Soudan

Southern Sudan

No further data

Probably in 1909

Probably in 1909

Probably sent by Mr. H. H. King

Probably sent by Mr. H. H. King

L.E.R. det. 9.XII.1914

Cited: Theiler & Salisbury (1959:
111).

ORIGINAL DETERMINATIONCURRENT STATUS

N 90

N 90 MISSING

Aponomma gervaisi var. lucasi 4 ♂Ophiophagus bungarus
(Hamadryad)

Presented by Hon. N. C. Rothschild

No particulars [4 slides]

(Mounted as slides 738-941
2 in glycerine, 2 in balsam
C. Warburton det. I.1915).

N 91

N 91 MISSING

Aponomma gervaisi var. lucasi 1 ♂Varanus civitatus
(Monitor)

Presented by Hon. N. C. Rothschild

No particulars [1 slide]

(Mounted as slide 900 in dil. glycerine.
C. Warburton det. I.1915).

ORIGINAL DETERMINATIONCURRENT STATUS

N 92

N 92 MISSING

Aponomma gervaisi 2 ♂Varanus civitatus
(Monitor)

Presented by Hon. N. C. Rothschild

No particulars [2 slides]

(Mounted as slides 962-965 in
glycerine.
C. Warburton det. I. 1915).

N 93

N 93 MISSING

Amblyomma decoratum 4 ♂, 1 ♀

Monitor

Kalas Island

[Kalao Island misspelled]

Presented by Hon. N. C. Rothschild

[5 slides] (3 in glycerine, 2 ♂ in
balsam R. 959, 961, 963, 964, 966)
C.W. det. I. 1915

[R 964 is entered under N 76]

N 94

N 94 MISSING

Hyalomma aegyptium ♂'s, ♀'s

Horse

Macloutsie, Bechuanaland

I. 1906

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	95	N	95
		RML	105881
	<u>Amblyomma marmoreum</u>		1 ♂ <u>Amblyomma marmoreum</u>
	Tortoise		Tortoise
	Macloutsi, Bechuanaland		Macloutsi (21.35 S, 27.21 E), Botswana
	Dr. B. G. Brock		Dr. B. G. Brock
			Robinson (1926: 89) indicated ♂'s present and Theiler & Salisbury (1959: 110) indicated 2 ♂ in this collection.
N	96	N	96 MISSING
	<u>Rhipicephalus</u> sp.		
	Mule		
	Macloutsie, Bechuanaland		
	I.1906		
	Dr. B. G. Brock		
N	97	N	97
		RML	105635
	<u>Rhipicephalus</u> sp.		2 ♂, 3 ♀ <u>Rhipicephalus simus</u>
	Dog		Dog
	Macloutsie, Bechuanaland		Macloutsi (21.35 S, 27.21 E), Botswana
	I.1906		I.1906
	Dr. B. G. Brock		Dr. B. G. Brock

ORIGINAL DETERMINATIONCURRENT STATUS

N	98	N	98
	Undetermined	RML	105882
	hare		1 ♂, 1 ♀ <u>Rhipicephalus punctatus</u>
	MacLountsie, Bechuanaland		hare
	I.1906		MacLoutsi (21.35 S, 27.21 E), Botswana
	Dr. B. G. Brock		I.1906
			Dr. B. G. Brock
N	99a, b	N	99a, b
		RML	105883
	(a) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(a) 10 ♂, 1 ♀ <u>Hyalomma rufipes</u>
	(b) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(a) 4 ♂, 1 ♀ <u>Hyalomma truncatum</u>
			(b) MISSING
	Ox		Ox
	MacLoutsie, Bechuanaland		MacLoutsi (21.35 S, 29.21 E), Botswana
	I.1906		I.1906
	Dr. B. G. Brock		Dr. B. G. Brock
N	100 a, b, c	N	100 a, b, c
		RML	105884
	(a) <u>Hyalomma aegyptium</u>		(a) 4 ♂, 2 ♀ <u>Hyalomma truncatum</u>
	(b) <u>Rhipicephalus</u> sp.		(b) MISSING
	(c) <u>Amblyomma</u> sp.		(c) MISSING
	Sheep		Sheep
	MacLoutsie, Bechuanaland		MacLoutsi (21.35 S, 27.21 E), Botswana
	I.1906		I.1906
	Dr. B. G. Brock		Dr. B. G. Brock

ORIGINAL DETERMINATIONCURRENT STATUS

N 101a, b

N 101a, b

RML 105885

(a) Hyalomma aegyptium(b) Rhipicephalus sp.(a) 3 ♂, 5 ♀ Hyalomma truncatum(b) 1 ♂ Rhipicephalus simus

Goat

Goat

Macloutsie, Bechuanaland

Macloutsi (21.35 S, 27.21 E),
Botswana

I.1906

I.1906

Dr. B. G. Brock

Dr. B. G. Brock

Mixed lot of ticks received from Dr. P. H. Ross, from Nairobi, E. Africa,
VII.1906. [All in a pill-box (dry) marked "Njiro, Dog"]

N 102a-d

N 102a

RML 105886

(a) Rhipicephalus pulchellus ♂, ♀(b) Amblyomma variegatum ♂, ♀(c) Haemaphysalis leachi ♂(d) Rhipicephalus sp. ♂, ♀

(a) 2 ♂, 3 ♀ Rhipicephalus pulchellus
plus an additional 2 ♂, 2 ♀ pinned
specimens. There is also 1 ♂ a
teneral runt that is tentatively
considered this species.

(b-d) MISSING

Pill box containing ticks marked
"Njiro dog"

Pill box containing ticks marked
"Njiro dog"

Nairobi, E. Africa

Nairobi (1.17 S, 36.49 E), Kenya

Received VII.1906

Received VII.1906

Received from Dr. P. H. Ross

Received from Dr. P. H. Ross

All ticks dry in pill box. One
slide of (b) ♀ in balsam.

Slide missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N 103
Rhipicephalus appendiculatus
 Nairobi, E. Africa
 Received VII.1906
 Received from Dr. P. H. Ross
 All dry in pill box marked
 "No. 10 gland by Dr. Milen"

N 103 MISSING

N 104
Amblyomma lepidum
 Cattle
 East Coast of Africa
 Received VII.1906
 Received from Dr. P. H. Ross

N 104
 RML 105887
 3 ♂ Amblyomma lepidum
 Cattle
 East coast of Africa
 Received VII.1906
 Received from Dr. P. H. Ross

N 105
Amblyomma variegatum
 Nairobi, E. Africa
 Received VII.1906
 Received from Dr. P. H. Ross
 Pinned in a pill box with a
 label as follows: "Dr. Hodges,
 Tumor No. 9"

N 105
 RML 105888
 8 ♂, 3 ♀, 2 N, Amblyomma variegatum
 Nairobi, (01.17 S, 36.49 E), Kenya
 Received VII.1906
 Received from Dr. P. H. Ross
 Pinned specimens

ORIGINAL DETERMINATIONCURRENT STATUS

N 106a, b, c

(a) Amblyomma variegatum ♂, ♀
 (b) Rhipicephalus evertsi ♂, ♀
 (c) Rhipicephalus pulchellus ♀

Nairobi

Received VII.1906

Received from Dr. P. H. Ross,
 Nairobi

No data label

(4 slides of ♂'s dissected)

N 106c
 RML 105889

(a) MISSING
 (b) MISSING
 (c) 1 ♀ Rhipicephalus pulchellus

Nairobi (01.17 S, 36.49 E), Kenya

Received VII.1906

Received from Dr. P. H. Ross,
 Nairobi

Slides missing.

N 107

Rhipicephalus capensis

Cape Colony, S. Africa

1906

Received from Mr. C. P. Lounsbury

[1 slide of 2 ♂, 2 ♀ in balsam
 prep.]

N 107
 RML 105890

7 ♂, 4 ♀ Rhipicephalus capensis

Cape Colony, Republic of South
 Africa

1906

Received from Mr. C. P. Lounsbury

Slide missing.
 Charles Pugsley Lounsbury
 (1872-1955) born in Brooklyn, N.Y.,
 B.Sc., Mass. Agric. College.
 Appointed Government Entomologist
 Union of South Africa in August 1895

108-118. Ticks received from Colonel B. Skinner, R.A.M.C., to whom they had been sent by Lt.-Col. C. E. Nuthall of the Army Veterinary Corps. They were all collected in Secunderabad, India, on the dates and hosts indicated below:

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	108a, b	N	108a, b
		RML	105891
	(a) <u>Hyalomma aegyptium</u>		(a) 193 ♂, 5 ♀, 1 N <u>Hyalomma anatolicum anatolicum</u>
	(b) <u>Rhipicephalus haemaphysaloides</u>		(b) 2 ♀ <u>Rhipicephalus haemaphysaloides</u>
	Cattle at slaughter house Secunderabad, India		Cattle at slaughter house Secunderabad (17.27 N, 78.30 E) India
	23·VI·1906		23·VI·1906
N	109	N	109
		RML	105892
	<u>Rhipicephalus sanguineus</u>		20 ♂, 23 ♀ <u>Rhipicephalus sanguineus</u>
	Dog, ears		Dog, ears
	Secunderabad, India		Secunderabad (17.27 N, 78.30 E) India
	25·V·1906		25·V·1906
	Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner		Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner
			Date on vial label is 8·VIII·1906
N	110	N	110
		RML	105893
	<u>Rhipicephalus sanguineus</u>		1 ♂, 12 ♀, 17 N <u>Rhipicephalus sanguineus</u>
	Dog, face, back & thighs		Dog, face, back & thighs
	Secunderabad, India		Secunderabad (17.27 N, 78.30 E), India
	25·V·1906		25·V·1906
	Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner		Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner

ORIGINAL DETERMINATIONCURRENT STATUS

N 111

♂ Hyalomma aegyptium

Horse, ear

Secunderabad, India

24.VI.1906

Lt. Col. C. E. Nuthall, A.V.C.
Received from Col. B. Skinner

N 111

RML 105894

1 ♂ Hyalomma anatolicum anatolicum

Horse, ear

Secunderabad (17.27 N, 78.30 E)
India

24.VI.1906

Lt. Col. C. E. Nuthall, A.V.C.
Received from Col. B. Skinner

N 112

Hyalomma aegyptium

Donga ponies, ears

Secunderabad, India

22.VI.1906

Lt. Col. C. E. Nuthall, A.V.C.
Received from Col. B. SkinnerNymphs and larvae mounted on
slides I, II

N 112

RML 105895

13 N (engorged), 27 N (unengorged)
Hyalomma sp.

Donga ponies, ears

Secunderabad (17.27 N, 78.30 E),
India

22.VI.1906

Lt. Col. C. E. Nuthall, A.V.C.
Received from Col. B. SkinnerSlides missing. The 13 engorged
specimens are in a separate vial from
the 27 unengorged nymphs. These are
most likely Hyalomma anatolicum
anatolicum. See Kaiser & Hoogstraal
(1964: 272).

ORIGINAL DETERMINATIONCURRENT STATUS

N 113

N 113

RML 60033

Rhipicephalus sanguineus15 ♂, 18 ♀ Rhipicephalus sanguineus

Dog (dachshund)

Dog (dachshund)

Secunderabad, India

Secunderabad (17.27 N, 78.30 E),
India

26-V-1906

26-V-1960

Lt. Col. C. E. Nuthall, A.V.C.
Received from Col. B. SkinnerLt. Col. C. E. Nuthall, A.V.C.
Received from Col. B. Skinner1 ♂, 1 ♀ sent to Prof. Dryer,
Parasitology Dept. Oxford.
1 ♂, 1 ♀ sent to W. D. Hunter,
USDA, Washington.
1 ♂, 1 ♀ sent to A. D. Imms
Allahabad Univ., IndiaAn additional 1 ♂, 1 ♀ of this
collection was sent to F. C. Bishopp.
(Bishopp 433). These ticks are
deposited in the Rocky Mountain
Laboratory.

N 114

N 114 MISSING

N's Hyalomma aegyptium

Pony, ear

Secunderabad, India

30-VI-1906

Lt. Col. C. E. Nuthall, A.V.C.
Received from Col. B. Skinner

ORIGINAL DETERMINATIONCURRENT STATUS

N 115

N 115

RML 105896

Rhipicephalus sanguineus2 ♂, 8 ♀ Rhipicephalus sanguineus

Dog

Dog

Secunderabad, India

Secunderabad (17.27 N, 78.30 E),
India

26·VI·1906

26·VI·1906

Lt. Col. C. E. Nuthall, A.V.C.
Received from Col. B. SkinnerLt. Col. C. E. Nuthall, A.V.C.
Received from Col. B. Skinner

N 116

N 116

RML 105897

Rhipicephalus sanguineus37 ♂, 6 ♀, 4 N Rhipicephalus
sanguineus

Dog

Dog

Secunderabad, India

Secunderabad (17.27 N, 78.30 E),
India

26·VI·1906

26·VI·1906

Lt. Col. C. E. Nuthall, A.V.C.
Received from Col. B. SkinnerLt. Col. C. E. Nuthall, A.V.C.
Received from Col. B. Skinner

ORIGINAL DETERMINATIONCURRENT STATUS

N 117

N 117

RML 105898

Hyalomma aegyptium2 ♂, 7 ♀ Hyalomma dromedarii

Water-cart bullock

Water-cart bullock

Secunderabad, India

Secunderabad (17.27 N, 78.30 E),
India

26.V.1906

26.V.1906

Lt. Col. C. E. Nuthall, A.V.C.
Received from Col. B. SkinnerLt. Col. C. E. Nuthall, A.V.C.
Received from Col. B. Skinner1 ♂, 1 ♀ sent to Dr. K. F. Meyer,
Univ. California, Berkeley
15-XI-1913.
1 ♂, 1 ♀ sent to A. D. Imms,
Allahabad Univ., India.Determined by Kaiser & Hoogstraal
as H. dromedarii in 1961 but
cited (1964: 272) as Hyalomma
a. anatolicum.

N 118

N 118

RML 105899

Hyalomma aegyptium23 ♂, 2 ♀ Hyalomma anatolicum
anatolicum

Goat

Goat

Secunderabad, India

Secunderabad (17.27 N, 78.30 E),
India

28.V.1906

28.V.1906

Lt. Col. C. E. Nuthall, A.V.C.
Received from Col. B. SkinnerLt. Col. C. E. Nuthall, A.V.C.
Received from Col. B. Skinner

ORIGINAL DETERMINATIONCURRENT STATUS

N	119	N	119
		RML	105900
	<u>Hyalomma syriacum</u>		5 ♂ <u>Hyalomma aegyptium</u>
	Land tortoise		Land tortoise
	Chepstow, Monmouthshire, Wales		Chepstow (51.38 N, 2.40 W), Gwent, Wales
	Received 15.VIII.1906		Received 15.VIII.1906
	Received from Dr. J. Cropper, Chepstow, Monmouthshire, Wales		Received from Dr. J. Cropper
			All pinned specimens
N	120	N	120
		RML	105901
	<u>Aponomma gervaisi</u>		1 ♀ <u>Aponomma hydrosauri</u>
	<u>Varanus gouldi</u>		<u>Varanus gouldi</u>
	Australia, received at the Zoo, London		Australia, received at the Zoo, London
	Received 6.V.1905		Received 6.V.1905
N	121	N	121
		RML	105902
	<u>Haemaphysalis leachi</u> ♂		1 ♂ <u>Haemaphysalis leachi</u>
	Dog		Dog
	Grahamstown, S. Africa		Grahamstown (33.18 S, 26.32 E), Republic of South Africa
	Received VI.1906		Received VI.1906
	Received from T. Bowhill, F.R.C.V.S.		Received from T. Bowhill, F.R.C.V.S.
			A pinned specimen

ORIGINAL DETERMINATIONCURRENT STATUS

N	122	N	122	MISSING
	<u>Ornithodoros moubata</u>			
	Received 23.VII.1906			
	Received from Mr. Robert Newstead, School of Tropical Medicine, Liverpool.			Robert Newstead (1859-1947) M.S.C., F.R.S. Lecturer in Economic Entomology and Parasitology, Liverpool School of Tropical Medicine. Retired from Chair of Entomology, 1924.
N	123	N	123	MISSING
	<u>Ixodes ricinus</u> N			
	Grantchester, Cambs., England			
	Summer 1906			
	N.D.F. Pearce, Esq., M.A.			
N	124	N	124	
		RML	105903	
	<u>Rhipicephalus sanguineus</u>			13 ♂, 7 ♀ <u>Rhipicephalus sanguineus</u>
	South Africa			Republic of South Africa
	No particulars			

ORIGINAL DETERMINATIONCURRENT STATUS

N 125a, b

N 125

RML 105904

- (a) Ixodes hexagonus ♀
 (b) Ixodes hexagonus N's

2 ♀, 9 N Ixodes hexagonus

Hedgehog

Erinaceus europaeus

Grantchester, Cambs., England

Grantchester (52.10 N, 00.06 E),
Cambs., England

15.VIII.1906

15.VIII.1906

Mr. Pearce

Mr. Pearce

♀♀ (number not stated) sent to
 Dr. H. deB. Aragão, Brazil
 23.I.1910

See also Nuttall 918

1 ♀, 1 N sent to Dr. J. H. Ashworth
 22.VI.1910

1 ♀ sent to Richard Hancock,
 England, 16.VI.1918

N 126

N 126

RML 105905

Amblyomma dissimile4 ♂, 3 ♀, 1 N Amblyomma dissimile

British Guiana

Guyana

Sent 18.VIII.1906

Sent 18.VIII.1906

Sent by Dr. C. W. Daniels

Sent by Dr. C. W. Daniels

Cited in Robinson (1926: 167).
 An additional 1 ♂, 1 ♀ are pinned.

Dr. Daniels taught at the London
 School of Hygiene and Tropical
 Medicine. A group photo in 1901
 including Dr. Daniels was pub-
 lished by Mattingly (1976).

ORIGINAL DETERMINATIONCURRENT STATUS

N 127

Rhipicephalus sanguineus

Jerusalem, Palestine

Received 4·IX·1906

Received from "Cropper's friend"

N 127

RML 105906

3 ♂, 14 ♀ Rhipicephalus turanicus

Jerusalem (31.46 N, 35.14 E), Israel

Received 4·IX·1906

Received from "Cropper's friend"

Vial label reads "Dr. Cropper's friend"

N 128

Ixodes hexagonus

Longner Hall, Shrewsbury

Received IX·1906

Received from Mr. R.F.L. Burton

1 ♀ sent to Sheffield University
3·VI·1907

N 128

RML 105907

2 ♀ Ixodes hexagonusLongner Hall, Shrewsbury
(52.43 N, 02.45 W), England

Received IX·1906

Received from Mr. R.F.L. Burton

ORIGINAL DETERMINATIONCURRENT STATUS

N 129

N 129

RML 105908

Haemaphysalis neumanni 2 ♂, 4 ♀
(TYPES)2 ♂, 2 ♀ Haemaphysalis longicornis

Horse

Horse

Japan

Japan

Sent 1906

Sent 1906

Sent by Prof. Dr. W. Dönitz
from BerlinSent by Prof. Dr. W. Dönitz from
BerlinSyntypes of H. neumanniDönitz (1905: 127) original descrip-
tion.F.K.W. Dönitz (1838-1912). Nuttall
(1913a) wrote a memorial tribute
and list of Dönitz's publications.

N 130

N 130

RML 105909

Rhipicephalus sanguineus 1 ♀1 ♀ Rhipicephalus sanguineus

No particulars

No particulars

Cairo, Egypt

Cairo (30.03 N, 31.15 E), Egypt

Sent IX.1906

Sent IX.1906

Sent by Dr. Bitter

Sent by Dr. Bitter

ORIGINAL DETERMINATIONCURRENT STATUS

N 131

N 131

RML 105910

Amblyomma hebraeum? larvae1 L Amblyomma sp.

Human ♀

♀ Homo sapiens

Bihe District Angola

Distrito do Bie-Cuando Cubango
(16.00 S, 19.30 E), Angola

Probably V-1905

Probably V-1905

Sent by Dr. F. C. Wellman

Sent by Dr. F. Creighton Wellman

Dr. Wellman writes 28-VII-1906
 "Several years ago an English lady
 told me of a small white tick with
 a red head which appears in the
 middle of the wet season (Dec.-
 March) in numbers, and the bite of
 which is very painful, causing
 swellings and constitutional
 symptoms, faintness, nausea, etc."
 She sent this in consequence to
 Wellman (VII-1905) in "eau de
 Cologne" which she said she
 removed from her skin, its bite
 resulting in the symptoms she
 originally detailed to me. The
 specimen is from Bihe District
 of Angola, and probably dates from
 May 1905."

ORIGINAL DETERMINATIONCURRENT STATUS

N 132

N 132

RML 105911

Ornithodoros moubata (4)2 ♀ Ornithodoros moubata

Collected in native kraals

Collected in native kraals

Benguela District W. Africa

Distrito de Benguela
(12.00 S, 15.00 E), Angola

18.V.1906

18.V.1906

Received from Dr. F. C. Wellman

Received from Dr. F. Creighton
Wellman

N 133

N 133

RML 105986

Boophilus spec. incert. ♀'s4 ♀ Boophilus decoloratus

Ox

Ox

Bailundo District of
Benguela W. AfricaConcelho do Bailundo (12.00 S,
16.00 E) Benguela, Angola

15.VI.1905

15.VI.1905

Dr. Wellman

Dr. F. Creighton Wellman

♀ Hypostome mounted on a slide

Slide missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N 134
Haemaphysalis campanulata n. sp.
 ♂, ♀ eggs
 [Specimens renumbered No. 897.]

N See Nuttall 897

N 135
Argas persicus
 Fowls
 Central Research Institute
 Kasuli, Punjab, India
 IX.1906
 Received from Capt. E.D.W.
 Greig I.M.S.
 4 slides ♂, N skins and spiracle
 (Fig. 10 Ticks Part I) mounted in
 balsam and glycerin

N 135 MISSING

N 136
Argas persicus
 Fowls
 Central Research Institute
 Kasauli, Punjab, India
 IX.1906
 Received from Capt. E.D.W. Greig,
 I.M.S.
 Has been using them for experiments
 on Spirochaetoses. Found disease in
 fowls and has communicated it to a
 variety of birds (mammalia refractory).
 The larvae (not adult ticks)
 appear to infect.

N 136
 RML 105987
 1 ♂, 2 ♀, 1 N Argas persicus
 Fowls
 Central Research Institute,
 Kasauli (30.55 N, 76.57 E),
 Punjab, India
 IX.1906
 Received from Capt. E.D.W. Greig,
 I.M.S.

ORIGINAL DETERMINATIONCURRENT STATUS

N	137	N	137 MISSING
	<u>Boophilus</u> sp. eggs		
	Sent by Dr. A. Lutz, Sao Paulo, Brazil X.1906		
	No data		Dr. Adolfo Lutz (1855-1940), Medical degree Berne University 1878. Chief Medical Dept., Institute Oswaldo Cruz. Retired 1938. Died Rio de Janeiro 6.X.1940.
N	138	N	138 MISSING
	<u>Argas miniatus</u>		
	Sent by Dr. A. Lutz, Sao Paulo, Brazil, X.1906		
	No data		
N	139	N	139
		RML	105988
	<u>Amblyomma americanum</u> ♂'s, ♀'s		8 ♂, 5 ♀ <u>Amblyomma americanum</u>
	Hogs		Hogs
	Mountain House Farm		Mountain House Farm, Dallas (32.47 N, 96.48 W), Texas, USA
	24.III.1906		24.III.1906
	F. C. Pratt		F. C. Pratt
	Received from W. H. Dalrymple, M.R.C.V.S. Baton Rouge, Louisiana, USA [2 ♂, 2 ♀ mounted in cells with other <u>Amblyomma</u> spp.] Received 17.XII.1906		An additional 1 ♂, 1 ♀ are pinned specimens. Slides of 2 ♂, 2 ♀ missing. Additional locality information taken from vial label. Cited and 1 ♂, 1 ♀ figured in Robinson (1926: 46, 47).

ORIGINAL DETERMINATIONCURRENT STATUS

N 140

N 140

RML 105989

Argas persicus6 ♂, 2 ♀, 2 N, plus 2 specimens
too damaged to sex Argas persicus

Kasauli, Punjab, India

Kasauli (30.55 N, 76.57 E),
Punjab, India

Received 20·XII·1906

Received 20·XII·1906

Received from Capt. Greig, I.M.S.

Received from Capt. Greig, I.M.S.

He writes, 21·XI·1906 - "I have
had 3 successful infection
experiments, 2 with larvae and
1 with adult ticks."
[2 larvae in balsam on slide]
2 (sex not given) sent to
Col. Leishman 7·VIII·1907

Slide missing.

N 141

N 141 MISSING

Boophilus australis ♂'s, ♀'s, N'sBos taurus

Determined by Dr. C. W. Stiles,
1901, received from Bur. Anim.
Industry ("No. 4631"), U.S.
Dept. Agriculture 20·XII·1906
(parasite coll)
[2 ♂ mounted in balsam on 2 slides]
Det. as annulatus in Washington!
by Stiles [1901]

ORIGINAL DETERMINATIONCURRENT STATUS

N 142

N 142

RML 105990

Amblyomma pomposum 1 ♂3 ♂ Amblyomma pomposum

Sheath of a mule

Sheath of a mule

130 miles due E. of Benguella
W. Africa at an altitude of
4,200 ft.

130 miles (208 km) E. of Benguela
(12.35 S, 13.25 E), Angola at an
altitude of 4,200 ft. (1280 m).

20.X.1906

20.X.1906

Received from Dr. F. C. Wellman

Received from Dr. F. Creighton
Wellman

A common species thereabouts
Received 17.XII.1906

Cited in Robinson (1926: 100).

N 143

N 143 MISSING

Phonergates bicoloripes
(not a species of Ixodoidea)

Found in a pig-stye, Benguella, Angola,
West Africa; rec'd from Dr. F. C.
Wellman, 17.XII.1906. [Dr. Wellman
writes: "I have taken two other
individuals both feeding on ticks
(Orn. moubata) in pig-styes, 2.X.1906,
130 miles due East of Benguella, altitude
4200 ft.-Rainy season"]. See his letter
of 23.X.1906.

144-154. Ticks received from Dr. Aldo Castellani, Clinic for Tropical Diseases Colombo, Ceylon, 22.XI.1906. Determined by C. Warburton, XII.1906. (All places in Colombo or its suburbs):

ORIGINAL DETERMINATION

CURRENT STATUS

N 144

N 144

RML 105991

Rhipicephalus sanguineus

8 ♂, 3 ♀ Rhipicephalus sanguineus

Civet cat

Civet cat

Kollupitiya, Ceylon

Kollupitiya (06.53 N, 79.51 E),
Sri Lanka

20.XI.1906

20.XI.1906

Received from Dr. Aldo Castellani

Received from Dr. Aldo Castellani

Det. C. Warburton XII.1906

Prof. Marchese Sir Aldo Castellani (1877-1971). He proved (12.VI.1902) that Trypanosoma gambiense was the cause of sleeping sickness and that it occurred in the blood, the brain and in cerebrospinal fluid. He was Bacteriologist to the Ceylon Government (1903-1915).

ORIGINAL DETERMINATIONCURRENT STATUS

N 145

Rhipicephalus sanguineus

Dog

Kollupitiya, Ceylon

20·XI·1906

Received from Dr. Aldo Castellani

Determined C. Warburton XII·1906

N 146

Rhipicephalus sanguineus

Cow

Gangodawoila, Ceylon

17·XI·1906

Received from Dr. Aldo Castellani

Determined C. Warburton XII·1906

N 147

Rhipicephalus sanguineus

Mongoose

Koolupitiya, Ceylon

20·XI·1906

Received from Dr. Aldo Castellani

Determined C. Warburton XII·1906

N 145

RML 105992

26 ♂, 8 ♀ Rhipicephalus sanguineus

Dog

Kollupitiya (06.53 N, 79.51 E),
Sri Lanka

20·XI·1906

Received from Dr. Aldo Castellani

N 146

RML 105993

8 ♀ Rhipicephalus sanguineus

Cow

Gangodawila (06.52 N, 79.53 E),
Sri Lanka

17·XI·1906

Received from Dr. Aldo Castellani

N 147

RML 105994

12 ♂, 6 ♀ Rhipicephalus sanguineus

Mongoose

Kollupitiya (06.53 N, 79.51 E),
Sri Lanka

20·XI·1906

Received from Dr. Aldo Castellani

ORIGINAL DETERMINATIONCURRENT STATUS

N 148

N 148

RML 76099

Haemaphysalis bispinosa2 ♂ Haemaphysalis bispinosa
1 ♂ Haemaphysalis intermedia

Polecat

Polecat

Kollupitiya, Ceylon

Kollupitiya (06.53 N, 79.51 E),
Sri Lanka

20·XI·1906

20·XI·1906

Received from Dr. Aldo Castellani

Received from Dr. Aldo Castellani

Determined C. Warburton XII·1906

Cited in Nuttall & Warburton
(1915: 432).

N 149

N 149

RML 105995

Rhipicephalus sanguineus5 ♂, 1 ♀ Rhipicephalus sanguineus

Hare

Hare

Cotte, Ceylon

Kotte (06.43 N, 79.54 E),
Sri Lanka

18·XI·1906

18·XI·1906

Received from Dr. Aldo Castellani

Received from Dr. Aldo Castellani

Determined C. Warburton XII·1906

ORIGINAL DETERMINATIONCURRENT STATUS

N 150

N 150

RML 105996

Haemaphysalis bispinosa3 ♂, 3 ♀ Haemaphysalis bispinosa

Dogs

Dogs

Nugegoda, Ceylon

Nugegoda (06.52 N, 79.53 E),
Sri Lanka

19.XI.1906

19.XI.1906

Received from Dr. Aldo Castellani

Received from Dr. Aldo Castellani

Determined C. Warburton XII.1906

Cited in Nuttall & Warburton (1915:
432).

N 151

N 151

RML 105997

Haemaphysalis bispinosa3 ♂, 9 ♀ Haemaphysalis bispinosa

Mouse deer

Mouse deer

Cinnamon Gardens, Ceylon

Cinnamon Gardens (06.55 N, 79.52 E),
Sri Lanka

19.XI.1906

19.XI.1906

Received from Dr. Aldo Castellani

Received from Dr. Aldo Castellani

Determined C. Warburton XII.1906

Cited in Nuttall & Warburton (1915:
432).

ORIGINAL DETERMINATIONCURRENT STATUS

N 152

N 152

RML 105998

Haemaphysalis bispinosa2 ♂, 7 ♀ Haemaphysalis bispinosa

Pig

Pig

Government Model Farm, near
Colombo, CeylonGovernment Model Farm, near Colombo
(06.56 N, 79.51 E), Sri Lanka

17·XI·1906

17·XI·1906

Received from Dr. Aldo Castellani

Received from Dr. Aldo Castellani

Determined C. Warburton XII·1906
1 ♂, 1 ♀ sent to Dr. J. H. Ashworth,
Edinburgh 22·VI·1910Cited in Nuttall & Warburton (1915:
432).

N 153

N 153

RML 105999

Aponomma gervaisi1 ♂, 7 ♀ Aponomma gervaisi

Iguana

Iguana

Borlesgomuwa, Ceylon

Boralesgomuwa (06.50 N, 79.54 E),
Sri Lanka

18·XI·1906

18·XI·1906

Received from Dr. Aldo Castellani

Received from Dr. Aldo Castellani

Determined C. Warburton XII·1906

ORIGINAL DETERMINATIONCURRENT STATUS

N	154a, b	N	154a, b
		RML	106000
(a)	<u>Boophilus australis</u> 1 ♀	(a)	1 ♀ <u>Boophilus microplus</u>
(b)	<u>Rhipicephalus</u>	(b)	1 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	<u>sanguineus</u> 1 ♂, 2 ♀		
Cow		Cow	
Cinnamon Gardens, Ceylon		Cinnamon Gardens (06.55 N, 79.52 E),	
		Sri Lanka	
21·XI·1906		21·XI·1906	
Received from Dr. Aldo Castellani		Received from Dr. Aldo Castellani	
Determined C. Warburton XII·1906			

ORIGINAL DETERMINATIONCURRENT STATUS

N 155

N 155

RML 104760

Argas persicus5 N Argas persicus

Crevices in mud wall of hen roost at the Grand Hotel, Khartoum

Crevices in mud wall of hen roost at the Grand Hotel, Khartoum (15.36 N, 32.32 E), Sudan

Received 24·XI·1906

Received II·1907

Mr. H. H. King & Dr. A. Balfour

Mr. H. H. King & Dr. A. Balfour

Received from Dr. A. Balfour, Wellcome Research Laboratories, Gordon Memorial College, Khartoum, who states that these ticks are associated with a deadly spirochaetosis in fowls which occurred in fowls imported from Genoa, Italy, similar to the disease in Brazil (Marchoux & Salimbeni). "I am sending you nymphs, adults & casts, etc., which "infested these fowls." These were collected by Mr. H. H. King, our Entomologist & Dr. Balfour from crevices in the mud wall of the hen roost at the Grand Hotel, Khartoum. Some (sex/stage not stated) to Prof. G. H. Carpenter, Royal College Science, Dublin 19·I·1910. Some (sex/stage not stated) to Dr. G. S. Graham-Smith, Medical School, Cambridge 19·I·1910. Some (sex/stage not stated) to E. E. Green (F.E.S.) Govt. Entomologist, Ceylon 19·I·1910. Some (sex/stage not stated) to Dschunkowsky Transcaucasus 19·I·1910. Some (sex/stage not stated) to Dr. Edmund Sergent, Algeria N. Africa 19·IV·1910. Some (sex/stage not stated) to Dr. H. deB. Aragão, Brazil 23·I·1910

The date given above is from vial label which disagrees with catalogue. The reference is to Marchoux & Salimbeni (1903). There is one additional cast skin in this collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N	156	N	156
		RML	104761
	<u>Boophilus annulatus</u>		3 ♀ <u>Boophilus microplus</u>
	Received ca. 1901		Received ca. 1901
	Received from Mr. E. G. Wheeler		Received from Mr. E. G. Wheeler
N	157	N	157
		RML	105762
	<u>Boophilus annulatus</u> larvae		±2000 L <u>Boophilus microplus</u>
	Queensland, Australia		Queensland, Australia
	Received 1900		Received 1900
	Received from T. Bowhill F.R.C.V.S.		Received from T. Bowhill F.R.C.V.S.
N	158	N	158
		RML	104763
	<u>Aponomma trachysauri</u>		1 ♂, 1 ♀, 1 N <u>Aponomma hydrosauri</u>
	<u>Trachysaurus rugosus</u> (the stump-tailed lizard)		<u>Trachysaurus rugosus</u>
	Adelaide, S. Australia		Adelaide (34.55 S, 138.35 E), Australia
	14.XI.1906		14.XI.1906
	Received from Dr. E. A. Johnson		Received from Dr. E. A. Johnson

159-165. Ticks received from E. B. Haddon, B.A., 31.X.1906. All the specimens were collected of [sic] cows and oxen, at Jinja, Uganda, Africa:

ORIGINAL DETERMINATION

CURRENT STATUS

N 159

N 159 MISSING

Amblyomma variegatum

Cows and oxen

Jinja, Uganda

Received 31.X.1906

Received from E. B. Haddon, B.A.

N 160a, b

N 160a, b MISSING

(a) Amblyomma variegatum

(b) Rhipicephalus appendiculatus

Cows and oxen

Jinja, Uganda

Received 31.X.1906

Received from E. B. Haddon, B.A.

N 161a, b

N 161a, b MISSING

(a) Amblyomma variegatum

(b) Rhipicephalus appendiculatus

Cows and oxen

Jinja, Uganda

Received 31.X.1906

Received from E. B. Haddon, B.A.

ORIGINAL DETERMINATIONCURRENT STATUS

N 162a, b N 162a, b MISSING

(a) Amblyomma variegatum
 (b) Rhipicephalus appendiculatus

Cows and oxen

Jinja, Uganda

Received 31·X·1906

Received from E. B. Haddon, B.A.

N 163 N 163 MISSING

Amblyomma variegatum

Cows and oxen

Jinja, Uganda

Received 31·X·1906

Received from E. B. Haddon, B.A.

N 164 N 164 MISSING

Amblyomma variegatum

Cows and oxen

Jinja, Uganda

Received 31·X·1906

Received from E. B. Haddon, B.A.

ORIGINAL DETERMINATIONCURRENT STATUS

N 165

N 165 MISSING

Amblyomma variegatum

Cows and oxen

Jinja, Uganda

Received 31.X.1906

Received from E. B. Haddon, B.A.

N 166

N 166

RML 104764

♀'s Boophilus annulatus14 ♀ Boophilus annulatus

Probably Nebraska, USA

Probably Nebraska, USA

Sent 18.XII.1906

Sent 18.XII.1906

Prof. W. E. Allen

Prof. W. E. Allen

Sent by Prof. H. B. Ward of the
 Zoological Dept., The University
 Nebraska, Lincoln, Nebr., USA
 saying "cattle ticks collected
 and preserved by Prof. W. E.
 Allen of the State Normal
 School, Kearney, Nebraska."

Henry Baldwin Ward (1865-1945)
 Ph.D. Harvard 1892.
 Established the Journal of
Parasitology in 1914.

167-177. Ticks received 3.I.1907 from Colonel B. Skinner, R.A.M.C.,
to whom they were sent by Lt.-Col. C. E. Nuthall, R.A.V.C.

ORIGINAL DETERMINATION

CURRENT STATUS

N	167	N	167
		RML	71483
	<u>Haemaphysalis bispinosa</u>		43 ♀ <u>Haemaphysalis bispinosa</u> including 1 ♀ NEOTYPE 1 ♀ <u>Haemaphysalis intermedia</u> 1 ♂ <u>Hyalomma brevipunctata</u>
	Cattle at slaughter house		Cattle at slaughter house
	Madras, India		Madras (13.05 N, 80.17 E), Tamil Nadu, India
	9.XI.1906		9.XI.1906
	Lt. Col. C. E. Nuthall, R.A.V.C. sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907		Lt. Col. C. E. Nuthall, R.A.V.C. sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907
			For a discussion of this collection including selection of the NEOTYPE see Trapido (1965: 155, 156). The <u>H. bispinosa</u> collection is cited by Nuttall & Warburton (1915: 431); Hoogstraal & Trapido (1966: 1188).
N	168	N	168
		RML	104765
	<u>Haemaphysalis bispinosa</u>		15 ♀ <u>Haemaphysalis bispinosa</u>
	Goat		Goat
	Madras, India		Madras (13.05 N, 80.17 E), Tamil Nadu, India
	10.XI.1906		10.XI.1906
	Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907		Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907

ORIGINAL DETERMINATIONCURRENT STATUS

N 169

N 169

RML 104766

Haemaphysalis ? bispinosa
(mostly nymphs)2 ♂, 2 ♀, 104 N, 9 L Haemaphysalis
bispinosa

Cattle

Cattle

Basin Road Depot, Madras,
IndiaBasin Road Depot, Madras (13.05 N,
80.17 E), Tamil Nadu, India

15.XI.1906

15.XI.1906

Lt. Col. C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907Lt. Col. C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907

2 ♂ to C. Strickland, Malaya

N 170

N 170

RML 104767

Rhipicephalus sanguineus50 ♂, 55 ♀, Rhipicephalus sanguineus

Dog

Dog

Madras, India

Madras (13.05 N, 80.17 E), Tamil Nadu,
India

10.XI.1906

10.XI.1906

Lt. Col. C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907Lt. Col. C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907

ORIGINAL DETERMINATIONCURRENT STATUS

N 171

N 171

RML 104768

Hyalomma aegyptium13 ♂, 18 ♀ Hyalomma anatolicum
anatolicum

Cattle

Cattle

S. & T. Transport Co., Madras,
IndiaS. & T. Transport Co., Madras
(13.05 N, 80.17 E) Tamil Nadu, India

9.XI.1906

9.XI.1906

Lt. Col. C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907Lt. Col. C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.19071 ♂, 1 ♀ to Prof. Hewlett, Kings
College, London 6.III.1907

N 172

N 172 MISSING

Hyalomma aegyptium

Cattle

Harris Road Cattle Depot,
Madras, India

8.XI.1906

Lt. Col. C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.19071 ♂, 1 ♀ to Richard Hancock,
England 16.VI.1918

ORIGINAL DETERMINATIONCURRENT STATUS

N 173

N 173

RML 104769

Rhipicephalus sanguineus37 ♂, 83 ♀ Rhipicephalus sanguineus

Pariah dogs

Pariah dogs

Madras, India

Madras (13.05 N, 80.17 E), Tamil Nadu, India

9.XI.1906

9.XI.1906

Lt. Col. C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907

Lt. Col C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907

1 ♂, 1 ♀ to Col Leishman
7.VIII.1907.
1 ♂, 1 ♀ to Prof. B. Galli-Valerio,
Lausanne, Switzerland 14.III.1912.
1 ♂, 1 ♀ to Prof. Dr. M. Miyajima
Tokio, Japan 7.III.1912.
1 ♂, 1 ♀ to Dr. G. L. Tuck,
Tientsin, China 17.II.1912.
1 ♂, 1 ♀ to A. H. Cockayne,
Wellington, N.Z.
1 ♂, 1 ♀ to Dr. Lajos Gwzony, Univ.
Budapest, Hungary 23.VI.1914.

Vial label locality reads
Secunderabad, India

N 174

N 174

RML 104770

Rhipicephalus sanguineus88 ♂, 48 ♀, 2 N Rhipicephalus sanguineus

Foxhounds

Foxhounds

Madras, India

Madras (13.05 N, 80.17 E), Tamil Nadu, India

10.XI.1906

10.XI.1906

Lt. Col. C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907

Lt. Col. C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907

1 ♂, 1 ♀ to Richard Hancock,
England 16.VI.1918.

ORIGINAL DETERMINATIONCURRENT STATUS

N 175

N 175

RML 104771

Hyalomma aegyptium18 ♂, 9 ♀ Hyalomma anatolicum
anatolicum

Donga ponies

Donga ponies

Secunderabad, India

Secunderabad (17.27 N, 78.30 E),
India

26.V.1906

26.V.1906

Lt. Col. C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907Lt. Col. C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907

N 176

N 176

RML 66586

Hyalomma aegyptium2 ♂, 1 ♀ Hyalomma anatolicum
anatolicum

Cattle

Cattle

Harris Road Cattle Depot,
Madras, IndiaHarris Road Cattle Depot, Madras
(13.05 N, 80.17 E), Tamil Nadu,
India

8.XI.1906

8.XI.1906

Lt. Col. C. E. Nuthall, R.A.M.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907Lt. Col. C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	177 <u>Amblyomma hebraeum</u> N's Cape Colony, South Africa ♂'s, ♀'s received II.1906 N's received I.1908 C. P. Lounsbury [2 slides, balsam] N's sent for heartwater experiments	N	177 MISSING
N	177X <u>Amblyomma hebraeum</u> ♂'s, ♀'s Rec'd from C. P. Lounsbury II.1906 Cape Colony, South Africa	N	177X MISSING
N	178 larvae ? Off a cesspit Adelaide S. Australia Received 14.XI.1906 Rec'd from Dr. E. A. Johnson (what are they?)	N	178 MISSING
N	179 <u>Boophilus australis</u> Labelled " <u>Rhipicephalus australis</u> " Asia Minor Rec'd XII.1906 Dr. E. Steinhardt. Sent by Dr. H. Bitter [hypostome mounted on a slide]	N	179 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 180

N 180

RML 104772

Boophilus australis ♀'s5 ♀ Boophilus microplus

English cattle

English cattle

Astana farm, Sarawak

Astana farm, Sarawak, Malaysia

Sent 17.XII.1906

Sent 17.XII.1906

John Hewitt, B.A.

John Hewitt, B.A. (1881-1961) born in England, spent some years in Sarawak, Director of Museum at Kuching. In 1908 went to South Africa and became Director of the Albany Museum, Grahamstown in 1910; retired in 1958. Authority on spiders and reptiles of South Africa.

Taken from softer parts of the skin of English cattle belonging to the Astana farm. These ticks exist in thousands, forming a continuous crust on the skin of the unfortunate beasts. Apparently they cause no specific disease, but the cattle become rather emaciated. The grass of the area in question is swarming with very active young ticks for miles. These creatures do not seriously attack Indian cattle or buffaloes, so the farmer says. I would be glad of a name for the ticks. Perhaps Dr. Nuttall would look at them? I can send more specimens and representatives of every stage of the life-history of the tick, if anyone desires it. From John Hewitt, B.A., Superintendant of the Museum, Sarawak, Borneo 17.XII.1906.

ORIGINAL DETERMINATIONCURRENT STATUS

N 181

N 181

RML 104773

Rhipicephalus sanguineus 1 ♀
(young)1 ♀ Rhipicephalus sanguineus

Man in his bed

♂ Homo sapiens

Sekondi, Gold Coast, W. Africa

Sekondi (04.56 N, 01.42 W), Ghana

10.X.1906

10.X.1906

Sent by Dr. W. M. Graham
M.O. Gold CoastSent by Dr. W. M. Graham,
M.O. Gold Coast182-188 Ticks received from Colonel B. Skinner, R.A.M.C., from Ceylon,
15.I.1907:

N 182

N 182

RML 104774

Amblyomma integrum ♀'s2 ♀ Amblyomma integrum

Cattle

Cattle

Naranpitiya, Ceylon

Naranpitiya (07.13 N, 80.21 E),
Sri Lanka

3.XII.1906

3.XII.1906

Received from Col. B. Skinner
R.A.M.C. 15.I.1907Plus one additional ♀ pinned.
Cited: Robinson (1926: 114).

ORIGINAL DETERMINATIONCURRENT STATUS

N 183a, d

N 183a, d

RML 104775

- (a) Rhipicephalus sanguineus
- (b) Boophilus australis ♀
- (c) Haemaphysalis bispinosa
- (d) Amblyomma sp.

- (a) 8 ♂ Rhipicephalus sanguineus
- (b) 2 ♀ Boophilus microplus
- (c) 1 ♂, 2 ♀ Haemaphysalis bispinosa
- (d) 2 N Amblyomma sp.

Mouse-deer (? dying)

Mouse-deer (? dying)

Boreasgama, Ceylon

Boralesgomuwa (06.50 N, 79.54 E),
Sri Lanka

6.XII.1906

6.XII.1906

Received from Col. B. Skinner
R.A.M.C. 15.I.1907

Received from Col. B. Skinner
R.A.M.C. 15.I.1907

ORIGINAL DETERMINATIONCURRENT STATUS

N 184

Amblyomma integrum ♂

Horse (? hare)

Borlasgama, Ceylon

6.XII.1906

Received from Col. B. Skinner
R.A.M.C. 15.I.1907

2 ♂ to C. Strickland, Malaya

N 184

RML 104776

4 ♂ Amblyomma integrum

Horse (? hare)

Boralesgomuwa (06.50 N, 79.54 E),
Sri Lanka

6.XII.1906

Received from Col. B. Skinner
R.A.M.C. 15.I.1907

N 185a, b

(a) Boophilus australis ♀'s
(b) Amblyomma sp. N's

Buffalo

Cotta, Ceylon

4.XII.1906

Received from Col. B. Skinner
R.A.M.C. 15.I.1907

N 185a, b

RML 104777

(a) 5 ♀ Boophilus microplus
(b) 2 N Amblyomma sp.

Buffalo

Cotta Road (?) (06.55 N, 79.53 E)
Sri Lanka

4.XII.1906

Received from Col. B. Skinner
R.A.M.C. 15.I.1907

ORIGINAL DETERMINATIONCURRENT STATUS

N	186a, b	N	186a, b
		RML	104778
(a)	<u>Haemaphysalis bispinosa</u>	(a)	5 ♂, 4 ♀, 1 N <u>Haemaphysalis bispinosa</u>
(b)	<u>Boophilus spec. incert</u>	(b)	2 ♂ <u>Boophilus microplus</u>
	Country cat		Country cat
	Borlasgama, Ceylon		Boralesgomuwa (06.50 N, 79.54 E), Sri Lanka
	4.XII.1906		4.XII.1906
	Received from Col. B. Skinner R.A.M.C. 15.I.1907		Received from Col. B. Skinner R.A.M.C. 15.I.1907
	(a)[1 ♂, 3 ♀ mounted in balsam on 2 slides]		Slides missing. (186a) cited: Nuttall & Warburton (1915: 432).
N	187	N	187
		RML	104779
	<u>Haemaphysalis bispinosa</u>		4 ♂, 3 ♀ <u>Haemaphysalis bispinosa</u>
	Village dog		Village dog
	Borlasgama, Ceylon		Boralesgomuwa (06.50 N, 79.54 E), Sri Lanka
	4.XII.1906		4.XII.1906
	Received from Col. B. Skinner R.A.M.C. 15.I.1907		Received from Col. B. Skinner R.A.M.C. 15.I.1907
			There is an additional 1 ♂, 1 ♀ of this collection in the Rocky Mountain Laboratory collection. Cited: Nuttall & Warburton (1915: 432).

ORIGINAL DETERMINATIONCURRENT STATUS

N	188a, b	N	188a, b
		RML	76098
	(a) <u>Haemaphysalis bispinosa</u>		(a) 1 ♀ <u>Haemaphysalis intermedia</u>
	(b) <u>Boophilus australis</u>		(b) 5 ♀ <u>Boophilus microplus</u>
	Black monkey		Black monkey
	Raygam Koili, Ceylon		Raygam Koili, Sri Lanka (Locality not verified)
	5.XII.1906		5.XII.1906
	Received from Col. B. Skinner R.A.M.C. 15.I.1907		Received from Col. B. Skinner R.A.M.C. 15.I.1907
	[hypostome mounted on a slide]		Slide missing. An additional 1 ♀ <u>H. intermedia</u> is in the NAMRU-3 collection, Cairo, Egypt
	189-193. Ticks received 22.I.1906, from Dr. P. H. Ross, Government Bacteriologist, Nairobi, East African Protectorate:		
N	189	N	189 MISSING
	<u>Rhipicephalus appendiculatus</u>		
	Goats		
	Benadir Coast		[The Benadir Coast is in The Somali Democratic Republic.]
	Received 22.I.1907		
	Received from Dr. P. H. Ross, Government Bacteriologist, Nairobi East African Pro- tectorate.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 190

N 190 MISSING

Amblyomma variegatum ?

Cattle

Embu (Mt. Kenya)

Received 22.I.1907

Received from Dr. P. H. Ross,
Government Bacteriologist,
Nairobi East African Pro-
tectorate.

N 191a, b

N 191 b

RML 104780

(a) Haemaphysalis leachi

(a) MISSING

(b) Rhipicephalus simus 1 ♂(b) 2 ♂, 1 ♀ Rhipicephalus simus

Dog

Dog

Nairobi, B. E. Africa

Nairobi (1.17 S, 36.49 E), Kenya

Received 22.I.1907

Received 22.I.1907

Received from Dr. P. H. Ross,
Government Bacteriologist,
Nairobi East African Pro-
tectorate.

Received from Dr. P. H. Ross,
Government Bacteriologist,
Nairobi East African Pro-
tectorate.

Dr. P. H. Ross collection 1906
Compared with Neumann's
type of R. simus

ORIGINAL DETERMINATIONCURRENT STATUS

N 192a, c

N 192a, c

RML 104781

- (a) Amblyomma variegatum
 (b) Rhipicephalus evertsi ♂
 (c) Rhipicephalus pulchellus ♀

- (a) 7 ♂, 2 ♀, 3 N Amblyomma variegatum
 (b) MISSING
 (c) 1 ♀ Rhipicephalus pulchellus

Cattle

Cattle

Nairobi, B.E. Africa

Nairobi (01.17 S, 36.49 E), Kenya

Received 22.I.1907

Received 22.I.1907

Received from Dr. P. H. Ross,
 Government Bacteriologist,
 Nairobi East African
 Protectorate

Received from Dr. P. H. Ross,
 Government Bacteriologist
 Nairobi East African Protectorate

(192a) 4 slides ♀'s mounted in
 balsam

Slides of N 192a missing.

1 ♂, 1 ♀ of A. variegatum to
 Prof. Hewlett, Kings College,
 London

N 193a, d

N 193b, d

RML 104782

- (a) Hyalomma aegyptium
 (b) Rhipicephalus pulchellus ♀
 (c) Amblyomma lepidum ♂
 (d) Rhipicephalus simus? ♂

- (a) MISSING
 (b) 1 ♀ Rhipicephalus pulchellus
 (c) 1 ♂ Amblyomma lepidum
 (d) 1 ♂ Rhipicephalus humeralis

Cattle

Cattle

Lamu and Kismayu

Lamu (02.16 S, 40.54 E) and Kismayu
 (locality not verified, Kisumu,
 00.06 S, 34.45 E is a possibility),
 Kenya

Received 22.I.1907

Received 22.I.1907

Received from Dr. P. H. Ross,
 Government Bacteriologist, Nairobi
 East African Protectorate

Received from Dr. P. H. Ross,
 Government Bacteriologist, Nairobi
 East African Protectorate

194-198. Ticks sent by Colonel W. B. Leishman, R.A.M.C., 24.I.1907, who wants diagnoses. These were sent to him by Captain W. H. Best, West African Medical Staff, collected by him in the Ikite Country, N.E. District of Lagos Province, West Africa:

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	194	N	194
		RML	104783
<u>Amblyomma splendidum</u>		2 ♂ <u>Amblyomma splendidum</u>	
Buffalo		<u>Syncerus caffer</u>	
Ikite Country, N. E. District of Lagos Province, West Africa		Ikite Country, N. E. District of Lagos State (06.30 N, 03.30 E), Nigeria	
Received 24.I.1907		Received 24.I.1907	
Capt. W. H. Best, West African Medical Staff. Sent by Col. W. B. Leishman, R.A.M.C.		Capt. W. H. Best, West African Medical Staff. Sent by Col. W. B. Leishman, R.A.M.C.	
(I-III, slides, ♂ dissected, balsam)		Cited in Robinson (1926: 125). Slides missing.	
		An additional pinned ♂ is in the BMNH collection.	
N	195a, b	N	195b
		RML	104784
(a) <u>Haemaphysalis leachi</u> 2 ♂		(a) MISSING	
(b) <u>Rhipicephalus bursa</u> ♀		(b) 1 ♀ <u>Rhipicephalus sanguineus</u> (tentative ID. Genital aperture narrow)	
Dog		Dog	
Ilesha		Ilesha (07.37 N, 04.44 E), Nigeria	
Received 24.I.1907		Received 24.I.1907	
Received from Dr. P. H. Ross, Government Bacteriologist, Nairobi East Africa		Received from Dr. P. H. Ross, Government Bacteriologist, Nairobi East Africa	

ORIGINAL DETERMINATIONCURRENT STATUS

N 196

N 196

RML 104785

3 ° Amblyomma splendidum2 ° Amblyomma splendidum

Buffalo

Syncerus caffer

Ikiti Country

Ikiti Country, N.E. District of Lagos
State (06.30 N, 03.30 E), Nigeria

Received 24.I.1907

Received 24.I.1907

Capt. W. H. Best, West African
Medical Staff.Capt. W. H. Best, West African
Medical Staff.Sent by Col. W. B. Leishman
R. A. M. C.Sent by Col. W. B. Leishman,
R.A.M.C.

From collection N 194

Cited: Robinson (1926: 125).

N 197

N 197 MISSING

Rhipicephalus bursa

Harness deer

Ose River

Received 24.I.1907

Capt. W. H. Best, West African
Medical Staff.Sent by Col. W. B. Leishman,
R.A.M.C.

ORIGINAL DETERMINATIONCURRENT STATUS

N 198

Rhipicephalus simus 1 ♂

Pig

Ilesha, Lagos Province,
W. Africa

Received 24·I·1907

Capt. W. H. Best, West African
Medical Staff.
Sent by Col. W. B. Leishman
R.A.M.C.(L. G. Neumann determined
12·XI·1907 for us)

N 198

RML 104786

1 ♂ Rhipicephalus muhsamae

Pig

Ilesha (07.37 N, 04.44 E), Nigeria

Received 24·I·1907

Capt. W. H. Best, West African
Medical Staff.
Sent by Col. W. B. Leishman,
R.A.M.C.

N 199

Amblyomma marmoreum larvae
(Type)
Reared at Rosebank

Reared III·1906

Sent by Mr. Lounsbury, Govern-
ment Entomologist Cape Colony,
South Africa.

N 199

RML 104787

7 L Amblyomma sp.Reared at Rosebank (33.57 S, 18.28 E),
Republic of South Africa

Reared III·1906

Sent by Mr. Lounsbury, Government
Entomologist Cape Colony,
South Africa.

Cited: Edwards & Evans (1967: 596).

ORIGINAL DETERMINATIONCURRENT STATUS

N 200

N 200

RML 104788

Amblyomma marmoreum
unfed nymphs4 N Amblyomma sp.

Reared at Rosebank

Reared at Rosebank (33.57 S, 18.28 E),
Republic of South Africa.

Reared V.1906

Reared V.1906

Sent by Mr. Lounsbury, Govern-
ment Entomologist, Cape Colony
South AfricaSent by Mr. Lounsbury, Government
Entomologist, Cape Colony, South
Africa

ORIGINAL DETERMINATIONCURRENT STATUS

N	201	N	201
		RML	104789
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		31 ♂, 67 ♀ <u>Rhipicephalus sanguineus</u>
	Reared on nymphs on dogs		Reared as nymphs on dogs
	Madras, India		Madras (13.04 N, 80.17 E), India
	14.X.1906		14.X.1906
	Rec'd from Lieut. S.R. Christophers M.B., I.M.S.		Rec'd from Lieut. S.R. Christophers M.B., I.M.S.
	Infected with Piroplasmosis (5 slides, balsam mounts of ♂'s, ♀'s) I-V		Slides missing 1978 Colonel Sir Samuel Rickard Christophers (1873-1978). A brief review of his career and a photo are presented as a frontispiece in <u>Ann. Trop. Med. Parasit.</u> vol. 73 (1979).
N	202	N	202
		RML	22308
	<u>Amblyomma caelaturum</u> ♂ & ♀		1 ♂, 1 ♀ <u>Amblyomma geoemydae</u>
	Tortoise		Tortoise
	Malay Peninsula		Malaysia
	Dr. H. E. Durham		Dr. H. E. Durham
	Given me by Dr. Daniels, whose number "214" it bore. See descriptive notes, drawings and slide with digit of one, mounted (See Neumann Archi. f Parasitologie) Nove VI, p. 10, figs. 9 & 10, a ♂ & ♀ from Bulikima, Singapore, specimen from British Museum [digit mounted in balsam on a slide]		Slide of digit missing Cited: Robinson (1926: 230). Santos Dias (1958: 500) records 2 ♂, 1 ♀ <u>A. geoemydae</u> in this collection.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	203	N	203 MISSING
	<u>Ornithodoros moubata</u>		
	Dowa, British Central Africa		
	Rec'd 1905		
	Out of Dr. Daniel's Collection, No. 206.		
N	204	N	204 MISSING
	<u>Ornithodoros moubata</u>		
	British Central (Africa)		
	Rec'd 1905		
	Out of Dr. Daniel's Collection No. 207.		
N	205	N	205
		RML	104790
	<u>Ornithodoros moubata</u>		1 ♂, 1 ♀, 1 N <u>Ornithodoros moubata</u>
	Tete, Portuguese Central Africa		Tete (10.56 S, 14.10 E), Angola
	Rec'd 1905		Rec'd 1905
	Out of Dr. Daniel's Collection No. 209.		Cited: Merriman (1911: 171).
N	206	N	206
		RML	104791
	" <u>Argas americanus</u> "		2 ♂, 1 ♀, 2 N <u>Argas radiatus</u>
	Rec'd 1905		Rec'd 1905
	No data. Out of Dr. Daniel's Collection, No. 213.		
	Two specimens sent to Dr. E. Pavlovsky, Leningrad 9.X.1925.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 207

N 207

RML 104792

Boophilus australis ?, larvae,
labelled "Ixodes bovis"

+ 500 L Boophilus microplus

Probably Australia

Rec'd 10.XI.1904

Rec'd 10.XI.1904

W. F. Cooper

W. F. Cooper

Rec'd from Queensland
Bacteriological Station

N 208

N 208

RML 104793

Boophilus australis ? adults,
labelled "Ixodes bovis"

8 ♂ Boophilus microplus

Probably Australia

Rec'd 10.XI.1904

Rec'd 10.XI.1904

W. F. Cooper

W. F. Cooper

Rec'd from Queensland
Bacteriological Station

N 209

N 209 MISSING

Dermacentor andersoni =
occidentalis ♂

Victor, Montana

Rec'd from Dr. C. W. Stiles

Balsam mounted specimen on slide,
with diamond scratched No. 9467
(from U. S. Pub. Health & Marine-
Hospital Service, Washington,
D.C., U.S.A.)
[The word TYPE is crossed out
beneath the species determination -
J.E.K.]

There is an empty vial in token tube
indicating 1 ♂ D. andersoni on a
slide - Missing 1978. Number 9467 is
the holotype ♂ of Dermacentor andersoni
but the locality is Woodman, Montana,
not Victor. See Stiles (1910: 40)
and Keirans (1976: 262).

ORIGINAL DETERMINATIONCURRENT STATUS

N 210
3 ♂, 2 ♀ Dermacentor occidentalis
(Type)

Bos taurus

Helena, Montana

22.V.1904

Tuttle

Determined by Dr. C. W. Stiles
10.IV.1906 and 11.V.1904.
Presented by Tuttle, 1904.
Sent by Dr. Stiles to G.H.F.N.
and bearing No. 9487 (U.S. Pub.
Health & Marine-Hospital Service,
Washington, D.C., U.S.A.)

N 210 MISSING

No. 9487 is Dermacentor andersoni
collected in Hamilton, Montana -
See Stiles (1910; 41).

N 211
Dermacentor andersoni
(Type)

Man (♂ No. 9438)

Bitter Root Valley, Montana,
U. S. America

5.V.1903

J. F. Anderson

Determined by Dr. C. W. Stiles
Presented 29.VI.1903 by
J. F. Anderson. Sent by Dr. Stiles
to G.H.F.N. & bearing Nos. ♂ 9438,
♀ 9435 (U.S. Pub. Health &
Marine-Hospital Service,
Washington, D.C., U.S.A.).

N 211
RML 104794

1 ♂. 1 ♀ Dermacentor andersoni

Homo sapiens (♂ No. 9438)

Bitterroot Valley (47.06 N, 115.10 W)
Montana, U.S.A.

5.V.1903

J. F. Anderson

These are not type specimens and the
numbers 9438 and 9435 are not listed
in Stiles (1910)

212-215. Ticks from the district (County) of Juchitan, on the Pacific side of the Isthmus of Tehuantepec, Mexico. Received from the collector, A. Laughton 12.III.1907

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	212	N	212
		RML	104795
	<u>Amblyomma cajennense</u> ♂, ♀		1 ♂, 1 ♀ <u>Amblyomma cajennense</u> Lectotype and paralectotype of <u>A. versicolor</u>
	Horse		Horse
	Tolosa, Oaxaca, Mexico		Tolosa (22.31 N, 101.22 W), Mexico
	10.I.1907		10.I.1907
	A. Laughton		A. Laughton
	L. E. Robinson Det. 1926		Nuttall & Warburton (1908: 407), original description. Cited: Robinson (1926: 53). Lectotype designated: Keirans & Brewster (1981: 158).
N	213	N	213
		RML	104796
	<u>Amblyomma versicolor</u> ? N		1 N <u>Amblyomma</u> sp.
	Man		<u>Homo sapiens</u>
	Between Chivela and Rincou Antonio, Est. Oaxaca, Mexico		Between Chivela (16.42 N, 94.59 E) and Rincou Antonio (locality not verified), Mexico
	2.I.1907		2.I.1907
	A. Laughton		A. Laughton

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	214	N	214
		RML	104797
	<u>Amblyomma</u> sp. larvae		2 L <u>Amblyomma</u> sp.
	Horse		Horse
	Tolosa, Oaxaca, Mexico		Tolosa (22.31 N, 101.22 W), Mexico
	10.I.1907		10.I.1907
	A. Laughton		A. Laughton
N	215	N	215
		RML	104798
	<u>Boophilus</u> sp. larvae		4 L <u>Amblyomma</u> sp.
	Cow		Cow
	Tolosa, Oaxaca, Mexico		Tolosa (22.31 N, 101.22 W), Mexico
	10.I.1907		10.I.1907
	A. Laughton		A. Laughton
N	216	N	216 MISSING
	<u>Ixodes hexagonus</u> ♀'s, N's, L's		
	<u>Lutra vulgaris</u>		
	No doubt British		
	Gift of Hon. N. C. Rothschild		
	7 slides (R.961-973)		
	I-III - larvae		
	IV - N		
	V-VII - ♀'s		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	217	N	217 MISSING
	<u>Ixodes hexagonus</u> 2 ♀		
	Fox		
	No doubt British		
	Gift of Hon. N. C. Rothschild (2 slides R 930-931)		
N	218	N	218
		RML	104799
	<u>Amblyomma tholloni</u> 2 ♀		2 ♀ <u>Amblyomma tholloni</u>
	Elephant		<u>Loxodonta africana</u>
	Jinja, Busoga, Uganda, Africa		Jinja (00.26 N, 33.12 E), Uganda
	28.XI.1906		28.XI.1906
	Shot by E. G. Haddon, B.A.		E. B. Haddon, B.A.
			Cited: Robinson (1926: 252).
N	219	N	219
		RML	104800
	<u>Boophilus australis</u> ♀		34 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Kuching Sarawak, Borneo		Kuching (01.33 N, 110.20 E), Sarawak
	I.1907		I.1907
	Dr. A. R. Wellington, General Hospital, Kuching, Sarawak, Borneo		Dr. A. R. Wellington

ORIGINAL DETERMINATIONCURRENT STATUS

N 220

N 220

RML 104801

Haemaphysalis papuana1 ♀, 3 N Haemaphysalis papuana

Dog

Dog

Kuching, Sarawak, Borneo

Kuching (01.33 N, 110.20 E.), Sarawak

I.1907

I.1907

Dr. A. R. Wellington

Dr. A. R. Wellington

1 ♂ to L. O. Howard
 U.S.D.A. 21.V.1909 [specimen now
 in RML collection - J.E.K.]
 1 N to C. Strickland, Malaya
 1 ♀ to A. S. Hirst, B.M.N.H.

The ♀ of this collection was cited by
 Trapido et al (1964: 178).
 Collection in two tubes.

The nymphs are being retained with
 the ♀ although they probably are
 not H. papuana. See fig. 340,
 Nuttall & Warburton (1915: 406).

N 221

N 221

RML 104802

Haemaphysalis wellingtoni ♂'s
 ♀'s TYPE

 1 ♂, 10 ♀, 2 N Haemaphysalis
wellingtoni Lectotype and
 paralectotypes

Fowls

Fowls

Kuching, Sarawak, Borneo

Kuching (01.33 N, 110.20 E), Sarawak

I.1907

I.1907

Dr. A. R. Wellington

Dr. A. R. Wellington

[2 ♀ mounted in balsam on
 2 slides]

Slides present 1978.
 Nuttall & Warburton (1908: 397),
 original description.

1 ♀ to Dr. de Blieck, Java
 22.I.1915

1 ♂, 1 ♀ are in a separate vial
 with a blue TYPE label.
 Lectotype designated: Keirans &
 Brewster (1981: 163, 164).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	222	N	222 MISSING
<u>Amblyomma cajennense</u> ♂ & ♀ (TYPE)			
<u>Hydrochoerus capybara</u>			
Brazil			
Type gift of Professor L. G. Neumann of Toulouse, France 24.II.1907			
N	223	N	223
<u>Amblyomma striatum</u> ♂ & ♀ species epithet crossed out and <u>ovale</u> inserted. (TYPE)		RML	104803
<u>Canis azarai</u>		1 ♀ <u>Amblyomma striatum</u>	
Brazil		<u>Dusicyon</u> sp.	
Types gift of Professor L. G. Neumann of Toulouse, France 24.II.1907. Det. L. E. Robinson 1926		Brazil	
		This is not a type specimen. Cited as <u>Amblyomma ovale</u> by Robinson (1926: 29).	
N	224	N	224
<u>Ixodes brunneus</u> 1 ♀		RML	104804
Owl		2 ♀ <u>Ixodes arboricola</u> 1 ♀ <u>Ixodes frontalis</u>	
Cambridge		Owl	
Rec'd 1904		Cambridge (52.12 N, 00.08 E), England	
Rec'd from Dr. G. S. Graham-Smith		Rec'd 1904	
		Cited: Nuttall & Warburton (1911: 192); Arthur (1952: 153); Arthur (1963: 118).	

ORIGINAL DETERMINATIONCURRENT STATUS

N 225

N 225

RML 104805

Larva Argas sp.?1 L Argas vespertilionis

Bat

Bat

Grantchester, Cambs.

Grantchester (52.10 N, 00.06 E),
Cambs., England

X.1906

X.1906

N.D.F. Pearce, M.A.

N.D.F. Pearce, M.A.

N 226

N 226

RML 104806

Ornithodoros megnini10 N Otobius megniniBos taurusBos taurus

21.I.1899

21.I.1899

A. M. Hildebrand

A. M. Hildebrand

Determined 1899 by Stiles &
Hassall. Sent me by Dr. C. W.
Stiles of Washington, D.C., U.S.
America.

Some (sex/stage not stated) to
W. F. Cooper 22.I.1910.

ORIGINAL DETERMINATIONCURRENT STATUS

N 227

N 227

RML 104807

Rhipicephalus haemaphysaloides
♂ & ♀2 ♂, 1 ♀ Rhipicephalus haemaphysaloides

Chin Hills, India

Probably Chin Hills (23.30 N, 93.30 E),
BurmaFrom collection sent by Lefroy
to Warburton 1906 [1 slide, ♂ ♀
in balsam].The word Type beneath the species name
has been crossed out in the original
determination.

228-235. Ticks received from Dr. B. Brock, Germiston, Transvaal, S. Africa.
4.III.1907, who wrote, 8.II.1907 that they were sent him from the "North."
Those from tortoise (Nos. 228, 229) are the only ones his friend Mr. Fry
could find on reptiles.

N 228

N 228

RML 104808

Amblyomma marmoreum ♂♂ (many)
(Type)4 ♂, 2 ♀ Amblyomma marmoreum

Tortoise

Tortoise

"North" of Germiston, Transvaal
South Africa"North" of Germiston, Transvaal,
Republic of South Africa

Killed, 1906

Killed, 1906

Mr. Fry

Mr. Fry

Rec'd from Dr. B. Brock.
Killed, 1906 by hot water &
preserved in 10% formalin, which
evaporated.
1 ♂ to Prof. Hewlett,
Kings College, London.

Cited: Robinson (1926: 90).
These are not type specimens.
Theiler & Salisbury (1959: 108)
lists 7 ♂, 2 ♀.

ORIGINAL DETERMINATIONCURRENT STATUS

N 229

N 229

RML 104809

Amblyomma marmoreum ♂'s, 2 ♀
(Type)

10 ♂, 2 ♀ Amblyomma marmoreum

Tortoise

Tortoise

"North" of Germiston, Transvaal
South Africa

"North" of Germiston, Transvaal,
Republic of South Africa

Rec'd 4.III.1907

Rec'd 4.III.1907

Mr. Fry

Mr. Fry

Rec'd from Dr. B. Brock
Compared 6.III.1907, a type,
gorged ♀ of Lounsbury's also agree
with Nn's descr. & fig. of ♂.
1 ♂ to Dr. S. Hadwen Brit. Columbia,
Canada 10.X.1913.
1♂ to Prof. Kellogg, Stanford
Univ.
1 ♂ to Sheffield Univ. 3.VI.1907.

These are not type specimens.
3 ♂, 1 ♀ of the above total are
pinned specimens.
Cited: Robinson (1926: 90);
Theiler & Salisbury (1959: 108).

N 230a, b

N 230a, b

RML 104810

(a) Rhipicephalus simus ♂ ♀
(b) Rhipicephalus sanguineus ♂

(a) 6 ♂, 4 ♀ Rhipicephalus simus
(b) 3 ♂ Rhipicephalus sanguineus

Dog

Dog

"North" of Germiston Transvaal
South Africa

"North" of Germiston Transvaal,
Republic of South Africa

14.I.1907

14.I.1907

Mr. Fry

Mr. Fry

Rec'd from Dr. B. Brock

Date on vial label is 14.III.1907

ORIGINAL DETERMINATIONCURRENT STATUS

N 231

N 231 MISSING

Rhipicephalus appendiculatus 2 ♀

Cat

"North" of Germiston, Transvaal,
South Africa

14.I.1907

Mr. Fry

Rec'd from Dr. B. Brock

N 232a-d

N 232a, c, d

RML 104811

- (a) Hyalomma aegyptium ♂ ♀
 (b) Rhipicephalus evertsi ♂ ♀
 (c) Rhipicephalus simus ♂ ♀
 (d) Amblyomma hebraeum 1 ♂

- (a) 5 ♂, 9 ♀ Hyalomma rufipes
 (b) MISSING
 (c) 1 ♂, 1 ♀ Rhipicephalus simus
 (d) 1 ♂ Amblyomma hebraeum

Horse

Horse

"North" of Germiston, Transvaal,
South Africa"North" of Germiston, Transvaal,
Republic of South Africa

11.I.1907

11.I.1907

Mr. Fry

Mr. Fry

Rec'd from Dr. B. Brock

(232d) Cited: Robinson (1926: 107).

ORIGINAL DETERMINATIONCURRENT STATUS

N 233

Hyalomma aegyptium

Ox

"North" of Germiston, Transvaal
South Africa

22.I.1907

Mr. Fry

Rec'd from Dr. B. Brock

N 233

RML 104812

24 ♂, 1 ♀ Hyalomma rufipes

Ox

"North" of Germiston, Transvaal,
Republic of South Africa

22.I.1907

Mr. Fry

Rec'd from Dr. B. Brock

N 234

Hyalomma aegyptium

Sheep

"North" of Germiston, Transvaal,
South Africa

17.I.1907

Mr. Fry

Rec'd from Dr. B. Brock

N 234

RML 104813

9 ♂, 5 ♀ Hyalomma truncatum

Sheep

"North" of Germiston, Transvaal,
Republic of South Africa

17.I.1907

Mr. Fry

Rec'd from Dr. B. Brock

N 235

Hyalomma aegyptium

Goat

"North" of Germiston, Transvaal
South Africa

17.I.1907

Mr. Fry

Rec'd from Dr. B. Brock

N 235

RML 104814

8 ♂ Hyalomma truncatum

Goat

"North" of Germiston, Transvaal,
Republic of South Africa

17.I.1907

Mr. Fry

ORIGINAL DETERMINATIONCURRENT STATUS

N 236

N 236

RML 104815

Argas persicus var. miniatus1 ♂, 1 N Argas miniatus1 ♂, 1 N Argas persicus

Brazil

Brazil

Rec'd II.1907

Rec'd II.1907

Rec'd from Dr. E. Marchoux

Rec'd from Dr. E. Marchoux

A) Some, which arrived dead, were preserved in 70% spirit. They conveyed spirochaetosis to fowl in Cambridge.

B) After feeding on fowl and mouse on 19.II.1907, these ticks, placed at 24° C, cast skins by 6.III.1907; 7 out of lot "E", 2 out of lot "G", re which see protocols of experiments.

N 237

N 237

RML 104816

Rhipicephalus sanguineus larvae139 L Rhipicephalus sanguineus

Original stock from Cairo, Egypt

Original stock from Cairo, Egypt

Rec'd 29.VIII.1906

Rec'd 29.VIII.1906

Rec'd from Dr. Bitter

Rec'd from Dr. Heinrich Bitter

Hatched 29.VIII.1906

Slide missing

[1 slide, larvae in balsam]

Cited: Nuttall (1915: 448).

ORIGINAL DETERMINATIONCURRENT STATUS

N 238

N 238 MISSING

Ornithodoros moubataLilongwe, Central Angoniland,
British Central Africa

Rec'd 12.III.1907

Rec'd from Dr. C. W. Daniels

"They are unusually light
in colour."239-241. Ticks received from Dr. A. Balfour, Gordon College, Khartoum,
labelled from the "Wellcome Research Laboratories" (Entomological
Dept.), Khartoum, Sudan.

N 239

N 239

RML 104817

Rhipicephalus sanguineus4 ♂, 2 ♀ Rhipicephalus sanguineus
3 ♂, 1 ♀ Rhipicephalus simus

No data

No data

Rec'd from Dr. A. Balfour

Rec'd from Dr. A. Balfour

ORIGINAL DETERMINATIONCURRENT STATUS

N	240	N	240
		RML	104818
	<u>Amblyomma marmoreum</u>		2 ♂ <u>Amblyomma sparsum</u>
	No data		No data
	Rec'd from Dr. A. Balfour		Rec'd from Dr. A. Balfour
	The lot contained a malformed ♂ which will be found among the pinned specimens. It was described & figured by me in Parasitology, vol. VII, p. 254		Cited: Nuttall (1914a: 254); Robinson (1926: 89); Theiler & Salisbury (1959: 110). The pinned malformed ♂ is now in the BMNH collection.
N	241	N	241
		RML	104819
	<u>Hyalomma aegyptium</u>		8 ♂, 9 ♀ <u>Hyalomma dromedarii</u> 1 ♂, 1 ♀ <u>Hyalomma rufipes</u>
	No data		No data
	Rec'd from Dr. A. Balfour		Rec'd from Dr. A. Balfour
N	242	N	242
		RML	104817
	<u>Argas persicus</u> larvae		1 L <u>Argas persicus</u>
	Parents from Cairo, Egypt, larvae raised in Cambridge		Parents from Cairo (30.03 N, 31.15 E), Egypt; larvae raised in Cambridge (52.13 N, 00.08 E), England
	Rec'd 29.VIII.1906		Rec'd 29.VIII.1906
	Sent by Dr. Bitter		Sent by Dr. Heinrich Bitter
	Supposed to be infected with <u>Spirochaeta gallinarum</u> , the ♀'s having been fed on an infected fowl 19.II.1906.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 243

N 243

RML 104821

Argas persicus eggsOne vial of Argas persicus eggsParent ticks probably from
Kasauli, Punjab, IndiaParent ticks probably from
Kasauli, (30.55N, 76.57E), India

Rec'd 20.XII.1906

Rec'd 20.XII.1906

Sent by Capt. E.D.W. Greig

Sent by Capt. E.D.W. Greig

Parent ticks received 20.XII.1906
fed 23.I.1907 on fowl, placed
at 24° C. Laid eggs (many) by
6.III.1907Retained in a separate jar for
tick eggs.

N 244

N 244 MISSING

Boophilus annulatus ♂, ♀

Cattle

Gainsville, Florida

8.III.1907

Professor J. M. Scott

Sent by C. L. Crow, Ph.D.

245-248. Ticks sent by Dr. A. Yale Massey of Tanganyika Concessions, Ltd., Kansanshi, N.W. Rhodesia, 22.I.1907, to R. T. Leiper, M.B. (London School of Tropical Medicine) and transmitted to Professor Nuttall on behalf of Mr. Leiper by Dr. C. W. Daniels, 26.III.1907. The bottles marked respectively 1, 5, 8, 9 & Massey's letter to Leiper says the following: (We must pick out what we want & return the rest with diagnoses).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	245	N	245
		RML	104822
<u>Ixodes cavipalpus</u> ♂ ♀		1 ♂, 3 ♀ <u>Ixodes cavipalpus</u>	
TYPES		Lectotype and paralectotypes	
Baboon		<u>Papio cynocephalus</u>	
Kansanshi, N.W. Rhodesia		Kansanshi (12.05 S, 26.25 E), Zambia	
Sent 22.I.1907 to London School Tropical Medicine		Sent 22.I.1907 to London School Tropical Medicine	
Ticks sent by Dr. A. Yale Massey of Tanganyika Concessions, Ltd., Kansanshi, N.W. Rhodesia.		Nuttall & Warburton (1908:394), original description, p. 395 cited host as <u>Cynocephalus babuin</u> Cited: Nuttall & Warburton (1911: 194). Arthur (1965: 128) indicated 2 ♂, 7 ♀ types deposited in BMNH. Lectotype designated: Keirans & Brewster (1981: 165).	
1 ♀ sent to A. S. Hirst B.M. (NH)		Two slides present of a ♂ & ♀	
1 ♂, 1 ♀ to London School Tropical Medicine 29.I.1908.			
[3 slides of ♂, ♀ & hypostome & spiracle, in balsam]			

ORIGINAL DETERMINATIONCURRENT STATUS

N 246

N 246

RML 104823

Rhipicephalus masseyi ♂ & ♀21 ♂, 12 ♀ Rhipicephalus masseyi
Lectotype and paralectotypesBos cafferSyncerus caffer

Kansanshi, N.W. Rhodesia

Kansanshi (12.05 S, 26.25 E), Zambia

1907

1907

2 ♀, 2 ♂ returned to London
Sch. Trop. Med.
1 ♂, 1 ♀ to Prof. Dönitz, Berlin
1 ♂, 1 ♀ to A. S. Hirst BM(N.H.)
[3 slides ♂, ♀'s mounted in balsam]
Ticks sent by Dr. A. Yale Massey
of Tanganyika Concessions, Ltd.,
Kansanshi, N.W. Rhodesia

2 ♀ on slide, 1 ♂ on slide, ♀ digits
on slide, 1 ♀ vulva on slide.
Nuttall & Warburton (1908: 404),
original description based on 31 ♂,
21 ♀. This type series of R. masseyi
also contains 1 ♀ Rhipicephalus kochi
and 1 ♀ Rhipicephalus hurti. Both
determinations tentative because
neither specimen is typical.
Lectotype designated: Keirans &
Brewster (1981: 170).

N 247

N 247 MISSING

Rhipicephalus annulatus var.
decoloratus

Cattle

Ticks sent by Dr. A. Yale Massey
of Tanganyika Concessions, LTD.,
Kansanshi, N.W. Rhodesia
"have been recognized [as such] by
Professor Neumann" Toulouse,
France (for Museum, Lond. Sch.
Trop. Med.).

ORIGINAL DETERMINATIONCURRENT STATUS

N 248a, b

N 248b

RML 104824

- (a) Boophilus decoloratus
 (b) Rhipicephalus capensis var.
compositus

- (a) MISSING
 (b) 11 ♂, 11 ♀ Rhipicephalus
compositus

Cattle

Cattle

Kansanshi

Kansanshi (12.05 S, 26.25 E), Zambia

Ticks sent by Dr. A. Yale Massey
 of Tanganyika Concessions, Ltd.,
 Kansanshi N.W. Rhodesia.

1 ♂, 1 ♀ sent to Col. A. Alcock
 FRS, London Sch. Trop. Med.
 26.I.1910.

249-252. Ticks sent by Dr. P. H. Ross, from Nairobi, British East Africa.
 He says we may keep the specimens but he desires them identified and the
 diagnoses sent him, in accordance with his numbers. They were collected
 by him and Mr. Simpson (Gov't. Veterinary Bacteriologist):

N 249

N 249

RML 104825

Amblyomma petersi 1 ♂

1 ♂ Amblyomma sparsum (tentative ID)
 (A pinned specimen)

Rhinoceros

Probably Diceros bicornis

Probably Kenya

P. H. Ross & Mr. Simpson

P. H. Ross & Mr. Simpson

Sent by Dr. P. H. Ross from
 Nairobi, British East Africa.
 Ross No. "2"

Cited: Robinson (1926: 90).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	250	N	250
		RML	104826
	<u>Amblyomma personatum</u> 2 ♂		2 ♂ <u>Amblyomma personatum</u> pinned specimens
	Rhinoceros		Probably <u>Diceros bicornis</u>
			Probably Kenya
	P. H. Ross & Mr. Simpson		P. H. Ross & Mr. Simpson
	Sent by Dr. P. H. Ross from Nairobi British East Africa. Ross No. "1"		Cited: Robinson (1926: 260).
N	251	N	251
		RML	104827
	<u>Dermacentor rhinocerotis</u>		3 ♂ <u>Dermacentor rhinocerinus</u>
	Rhinoceros		Probably <u>Diceros bicornis</u>
			Probably Kenya
	P. H. Ross & Mr. Simpson		P. H. Ross & Mr. Simpson
	Sent by Dr. P. H. Ross from Nairobi British East Africa. Ross No. "3"		Pinned specimens
N	252	N	252
		RML	104828
	<u>Hyalomma aegyptium</u> ? 1 ♂		1 ♂ <u>Hyalomma rufipes</u> pinned specimen
	cattle		Cattle
	Lamu		Lamu (02.16 S, 40.54 E), Kenya
	P. H. Ross & Mr. Simpson		P. H. Ross & Mr. Simpson
	Sent by Dr. P. H. Ross from Nairobi British East Africa Ross No. "4"		

ORIGINAL DETERMINATIONCURRENT STATUS

N 253 N 253 MISSING

Argas persicus

Rec'd IV.1907

Rec'd from Dr. E. A. Johnson
Adelaide, South Australia

Found associated with
spirochaetosis in fowls

N 254 N 254 MISSING

Hyalomma aegyptium ♂'s & ♀'s

Scrotum of bullock

Nowshera, India

16.IV.1907

Rec'd from Col. Skinner, R.A.M.C.

N 255 N 255 MISSING

Hyalomma aegyptium ♂'s & ♀'s

Scrotum of bullock

Nowshera, India

16.IV.1907

Rec'd from Col. B. Skinner, R.A.M.C.

ORIGINAL DETERMINATION

N 256

Hyalomma aegyptium ♂'s & ♀'s

Scrotum of bullock

Nowshera, India

16.IV.1907

Rec'd from Col. B. Skinner,
R.A.M.C.

N 257

Hyalomma aegyptium ♂'s & ♀'s

Between mammary glands of ♀ pony

Nowshera, India

18.IV.1907

Rec'd from Col. B. Skinner,
R.A.M.C.

N 258

Hyalomma aegyptium ♂'s

Ponies

Nowshera, India

18.IV.1907

Rec'd from Col. B. Skinner,
R.A.M.C.

CURRENT STATUS

N 256

RML 104829

7 ♂, 4 ♀ Hyalomma anatolicum anatolicum

Scrotum of bullock

Nowshera (34.01 N, 71.59 E), Pakistan

16.IV.1907

Rec'd from Col. B. Skinner, R.A.M.C.

Cited: Kaiser & Hoogstraal (1964:
272).

N 257

RML 104830

1 ♂, 2 ♀ Hyalomma anatolicum anatolicum

Between mammary glands of ♀ pony

Nowshera (34.01 N, 71.59 E), Pakistan

18.IV.1907

Rec'd from Col. B. Skinner, R.A.M.C.

N 258 MISSING

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	259	N	259
		RML	104831
	<u>Hyalomma aegyptium</u> ♂'s		5 ♂ <u>Hyalomma anatolicum anatolicum</u>
	Scrotum of bullock		Scrotum of bullock
	Peshawar City, India		Peshawar City (34.02 N, 71.37 E), Pakistan
	20.IV.1907		20.IV.1907
	Rec'd from Col. B. Skinner, R.A.M.C.		Rec'd from Col. B. Skinner, R.A.M.C.
	Lice of the genus <u>Haematopinus</u> also collected		Vial label indicates host as buffalo
N	260	N	260 MISSING
	<u>Hyalomma aegyptium</u> ♂'s ♀		
	Mammary gland of mare		
	Peshawar City, India		
	20.IV.1907		
	Rec'd from Col. B. Skinner, R.A.M.C.		
N	261	N	261 MISSING
	<u>Hyalomma aegyptium</u> ♂ & ♀		
	Scrotum of bullock		
	Peshawar City, India		
	20.IV.1907		
	Rec'd from Col. B. Skinner, R.A.M.C.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 262

Ixodes hexagonus 3 ♀

Dog

Cambridge

15.V.1907

Dr. G. S. Haynes

N 262

RML 104832

1 ♀ Ixodes hexagonus

Dog

Cambridge (52.12 N, 00.08 E), England

15.V.1907

Dr. G. S. Haynes

Cited: Nuttall & Warburton (1911:182).

N 263

Hyalomma syriacum 1 ♂

Healthy garden tortoise

The Master's Lodge,
Spalding, England

V.1907

Mr. S. H. Perry

N 263

RML 104833

1 ♂ Hyalomma aegyptium

Healthy garden tortoise

The Master's Lodge, Spalding (52.47 N,
00.09 W) England

V.1907

Mr. S. H. Perry

N 264

Argas persicus

Infected (spirochaetosis) fowl run

Probably Kasauli, India

Sent alive 4.V.1907, rec'd 25.V.1907

Sent by Capt. E.D.W. Greig, IMS

[1 ♂, 2 ♀ mounted dry in cell
on slide]

N 264

RML 104834

1 N, 39 L Argas persicus

Infected (spirochaetosis) fowl run

Probably Kasauli (30.53 N, 76.57 E),
India

Sent alive 4.V.1907, rec'd 25.V.1907

Sent by Capt. E.D.W. Greig, IMS

Slide missing.
Collection in two vials.

ORIGINAL DETERMINATIONCURRENT STATUS

N 265

Hyalomma syriacum ♂'s & ♀'s
(one small ♂)

Large tortoise

Cambridge

24.V.1907

Rec'd from Prof. James Ward

1 ♂, 1 ♀ to Dr. H. De B
Aragao, Brazil 23.I.1910

N 265

RML 104835

11 ♂, 3 ♀ Hyalomma aegyptium

Large tortoise

Cambridge (52.12 N, 00.08 E), England

24.V.1907

Rec'd from Prof. James Ward

266-291. California Ticks: 26 tubes of ticks received 30.V.1907, from Professor Vernon L. Kellogg, Zoological Dept., Leland Stanford Junior University, California, U.S.A., being their whole collection. To be determined and mostly returned.

N 266

Dermacentor variabilis ?

Short-tailed wild cat

Monterey, California

6.VIII.1895

(slide)

N 266 MISSING

Vernon Lyman Kellogg (1867-1937)
Professor of Zoology, Stanford University,
Mallophaga authority and charter
member, Entomological Society of America.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	267	N	267
		RM1	104836
	<u>Ixodes brunneus</u> ♀		1 ♀ <u>Ixodes brunneus</u>
	" <u>Carpidacus puilatus</u> " ?		<u>Carpodacus</u> sp.
	Palo Alto California		Palo Alto (37.21 N, 122.07 W), California
	2.V.1891		2.V.1891
	Snodgrass		Snodgrass
			Cited: Nuttall & Warburton (1911:1912)
N	268	N	268 MISSING
	<u>Dermacentor variegatus</u> ?♀		
	Long Bridge, San Gregorio, California		
	10.VII.1896		
	F. J. Jack		
N	269a-c	N	269 MISSING
	(a) <u>Dermacentor variegatus</u> ?♂'s		
	(b) Fleas, etc.		
	(c) <u>Ixodes ricinus</u> ♂ & N's		
	Fox		
	Palo Alto, California		
	III.1895		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	270	N	270
	<u>Ixodes texanus</u> 1 ♀	RML	104837
	Californian grey squirrel		1 ♀ <u>Ixodes texanus</u>
	King's River, California		Californian grey squirrel
	25.VII.1896		King's River (approximately 36.18 N, 119.52 W), California
			25.VII.1896
			Nuttall, et al. (1911: 215) figured this specimen and N992. The specimens are both correct but the captions are beneath the wrong figures. On pg. 216 he indicated 2 ♀ present but both catalogue and vial label read 1 ♀.
N	271	N	271 MISSING
	<u>Dermacentor albipictus</u> ♂ ♀		
	Horse		
	Menlo Park, California		
	VI.1892		
	W.G.F.		
	[A ♂ ♀ mounted as a slide ♂ ♀ spiracles ditto] C. W. det. I.1915		
N	272	N	272 MISSING
	<u>Ixodes ricinus</u> ♂, ♀'s		
	Mountain lion		
	14.XII.1894		
	Gilroy collection		
	[♂ ♀ mounted in balsam on a slide]		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	273	N	273
	<u>Argas persicus</u>	RML	104838
	Chickens		1 ♀ <u>Argas sanchezi</u>
	Merced, California		Chickens
	VII.1894		Merced (37.18 N, 120.29 W), California
	E. M. Ehrhorn		VII.1894
	(2 ♀ & 1 N kept 1 ♀ large!		E. M. Ehrhorn
	10.4 x 6.3 mm.)		
N	274	N	274 MISSING
	<u>Dermacentor</u>		
	Horse		
	Palo Alto, California		
	22.I.1895		
N	275	N	275 MISSING
	<u>Ixodes</u> sp. N.		
	Ear of ring-tailed cat		
	Santa Rosa, California		
	3.X.1895		
N	276	N	276 MISSING
	<u>Dermacentor</u> ♀'s		
	Probably California		
	No locality label		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	277	N	277 MISSING
	<u>Dermacentor</u>		
	Dog		
	Palo Alto, California		
	15.IV.1897		
	Dr. Jenkins		
N	278	N	278 MISSING
	<u>Ixodes brunneus</u> 1 ♀		
	Probably California		
	With feather attached		
	No locality label		
N	279	N	279
		RML	104839
	<u>Ixodes brunneus</u> 1 ♀		1 ♀ <u>Ixodes brunneus</u> slide of ♀ capitulum
	<u>Cyancitta stelleri frontalis</u>		<u>Cyanocitta stelleri</u>
			California
	15.XII.1895		15.XII.1895
	R. E. Snodgrass		R. E. Snodgrass
	Type of <u>Ixodes kelloggi</u> Nutt. & Warb. I.1908 since condemned		Nuttall & Warburton (1908: 396), original description of <u>I. kelloggi</u> . Cited: Nuttall & Warburton (1911: 192).
			Paralectotype designated: Keirans & Brewster (1981: 166).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	280	N	280
		RML	104840
	<u>Ixodes brunneus</u> 1 ♀		1 ♀ <u>Ixodes brunneus</u> Lectotype of <u>Ixodes kelloggi</u>
	Thrush		Thrush
	Palo Alto, California		Palo Alto (37.21 N, 122.07 W), California
	14.XI.1895		14.XI.1895
			Cited: Nuttall & Warburton (1911: 192). Lectotype designated: Keirans & Brewster (1981: 166).
N	281	N	281 MISSING
	<u>Amblyomma</u> sp.? N's and larvae		
	<u>Amevia surinamensis</u>		
	McLane		
	Panama Coll, Zoological Museum Near <u>A. latiscutatum</u>		
N	282	N	282
		RML	104841
	<u>Ixodes brunneus</u> 2 ♀		2 ♀ <u>Ixodes brunneus</u>
	<u>Piranga ludoviciana</u>		<u>Piranga ludoviciana</u>
	Sunol, California		Sunol (37.36 N, 121.53 W), California
	20.V.1896		20.V.1896
	(rostrum mutilated)		Cited: Nuttall & Warburton (1911:192).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	283	N	283
		RML	104342
	<u>Ixodes brunneus</u> 2 ♀'s		2 ♀ <u>Ixodes brunneus</u>
	<u>Habia melanocephala</u>		<u>Habia melanocephala</u> (name not verified)
	Sunol, California		Sunol (37.36 N, 121.53 W), California
	20.V.1896		20.V.1896
			Cited: Nuttall & Warburton (1911: 192); Arthur (1952: 152).
N	284	N	284
		RML	104343
	<u>Ixodes angustus</u> 1 ♀		1 ♀ <u>Ixodes angustus</u>
	<u>Scuirus</u>		<u>Scuirus</u> sp.
	La Honda, California		La Honda (37.19 N, 122.16 W), California
	3.II.1895		3.II.1895
			Nuttall & Warburton (1911: 198) cited V. L. Kellogg as the collector.
N	285	N	285 MISSING
	<u>Ixodes</u> sp ? N		
	<u>Turdus ustulatus</u>		
	Palo Alto, California		
	2.V.1896		
	R. E. Snodgrass		
N	286	N	286 MISSING
	<u>Ixodes ricinus</u>		
	Probably California		
	No locality label		

ORIGINAL DETERMINATIONCURRENT STATUS

N 287
Amblyomma sp ? N's & larvae
Amevia surinamensis
 McLane
 From Zoological Coll. Panama

N 288
Ornithodoros coriaceus
 (9 ♀, 7 ♂ kept 3 ♂, 4 ♀)
 Los Olivos, California
 VIII.1904
 H. A. Moran
 [1 ♀ mounted dry in cell on
 slide] Some sent to W. F. Cooper
 22.I.1910

N 289
Amblyomma dissimile ♂'s ♀'s
 Boa
 Panama
 13.I.1896
 R.C.M.

N 287 MISSING

N 288
 RML 104844
 2 ♂, 1 ♀ Ornithodoros coriaceus
 Los Olivos (34.41 N, 120.08 W)
 California
 VIII.1904
 H. A. Moran
 Slide missing.
 Nuttall's notebook on ticks sent
 away indicated that the collection
 date was VII.1904.

N 289
 RML 104845
 1 ♂, 2 ♀ Amblyomma dissimile
 Boa
 Panama
 13.I.1896
 R.C.M.

ORIGINAL DETERMINATIONCURRENT STATUS

N 290

N 290

Ixodes signatus 3 ♀, 1 N, 1 L3 ♀, 1 N, 1 L Ixodes signatus

Brandt's cormorant

Phalacrocorax penicillatus

Pacific Grove, California

Pacific Grove (36.38 N, 121.57 W),
California

1894

1894

(1 ♀ to be returned to Kellogg)
1♀ removed to give in exchange
to British Museum (Nat. Hist.)
17.XI.32. Note what rec'd in
exch. for this Ix. signatus =
Ix. nairobiensis Nuttall.

The ♀ I. signatus given to the BMNH
has accession number 1921.11.29.3.
Note in vial: compared with Nn's
Ixodes parvirostris & specimens in
Hamburg & Washington (B.A.I.)
G.H.F.N. VII.1916.
The 1♀ returned to Dr. Kellogg was
subsequently donated to the RML
Collection by Dr. G. F. Ferris of
Stanford University and given RML
numbers 39115 and 50538.

N 291

N 291 MISSING

Ixodes ricinus

Mouse

Palo Alto, California

18.III.1893

N 292

N 292 MISSING

Ornithodoros

Young nestling cormorant

Guernsey

VII.1898

Dr. G. S. Graham-Smith

[4 slides of larvae mounted in
balsam]

ORIGINAL DETERMINATIONCURRENT STATUS

N 293

Haemaphysalis N's & larvae

Cat

Sarawak, Borneo

Sent V.1907

Sent by Dr. A. R. Wellington

N 293

RML 104847

26 N, 33 L Haemaphysalis sp.

Cat

Sarawak

Sent V.1907

Sent by Dr. A. R. Wellington

N 294

Haemaphysalis wellingtoni

Fowls

Sarawak, Borneo

Sent V.1907

Sent by Dr. A. R. Wellington

N 294

RML 104848

7 ♂, 3 ♀, 9 N Haemaphysalis wellingtoni

Fowls

Sarawak

Sent V.1907

Sent by Dr. A. R. Wellington

[a N mounted in balsam on a slide]

1 ♂, 1 ♀ to Prof. Dönitz, Berlin

1 ♂, 1 ♀ to L. O. Howard, U.S.D.A. 21.V.1909

1 ♂ to C. Strickland, Malaya

1 ♂, 1 ♀ to A. S. Hirst, BM(NH)

Slide missing.

The specimens sent to L. O. Howard are now in the RML collection.

Cited: Moritz & Fischer (1981: 363).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	295	N	295
		RML	104849
	<u>Haemaphysalis papuana</u>		1 ♀ <u>Haemaphysalis papuana</u>
	Dog		Dog
	Sarawak, Borneo		Sarawak
	Sent 11.VII.1907		Sent 11.VII.1907
	Sent by Dr. Daniels (who received it from Dr. A. R. Wellington)		Sent by Dr. Daniels (who received it from Dr. A. R. Wellington)
N	296	N	296
		RML	104850
	<u>Boophilus australis</u> ?		1 ♂, 2 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Sarawak, Borneo		Sarawak
	Sent 11.VI.1907		Sent 11.VI.1907
	Sent by Dr. Daniels (who received it from Dr. A. R. Wellington)		Sent by Dr. Daniels (who received it from Dr. A. R. Wellington)
N	297	N	297
		RML	104851
	<u>Rhipicentor bicornis</u>		1 ♀ <u>Rhipicentor bicornis</u>
	Found in a house		Found in a house
	Kansanshi, N.W. Rhodesia		Kansanshi (12.05 S, 26.25 E), Zambia
	Rec'd. 11.VI.1907		Rec'd. 11.VI.1907
	Dr. A. Yale Massey		Dr. A. Yale Massey
	Said to have habits similar to <u>Ornithodoros moubata</u> . Dr. Daniels writes further (13.VI.1907) "Massey is said to be a careful man." The tick doubtless found in native hut.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	298	N	298	MISSING
	<u>Ixodes hexagonus</u>			
	Stoat, <u>Putorius erminea</u>			
	No doubt British			
	Gift of Hon. N. C. Rothschild			
	12 slides (R1000-1011)			
	I larva			
	II-VI nymphs			
	VII-XII ♀'s unfed & fed			
	299-303. Ticks received from Colonel B. Skinner, R.A.M.C., Nowshera, India, June 1907:-			
N	299	N	299	
		RML	104852	
	<u>Rhipicephalus sanguineus</u>		1 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>	
	Breast of fox terrier bitch		Breast of fox terrier bitch	
	Nowshera Cantonments, India		Nowshera (34.01 N, 71.59 E), Pakistan	
	28.IV.1907		28.IV.1907	
N	300	N	300	
		RML	104853	
	<u>Hyalomma aegyptium</u>		4 ♂, 3 ♀ <u>Hyalomma anatolicum anatolicum</u>	
	Between tail and rectum of a buffalo		Between tail and rectum of a buffalo	
	Nowshera City, India		Nowshera (34.01 N, 71.59 E), Pakistan	
	3.V.1907		3.V.1907	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	301	N	301
		RML	104854
	<u>Hyalomma aegyptium</u>		1 ♂, 5 ♀ <u>Hyalomma anatolicum anatolicum</u>
	Horse		Horse
	Nowshera City, India		Nowshera (34.01 N, 71.59 E), Pakistan
	3.V.1907		3.V.1907
N	302	N	302
		RML	104855
	<u>Rhipicephalus sanguineus</u>		1 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Grass in public garden		Grass in public garden
	East end of Nowshera Contonments, India		Nowshera (34.01 N, 71.59 E), Pakistan
	10.V.1907		10.V.1907
N	303	N	303 MISSING
	<u>Hyalomma aegyptium</u>		
	Bullock		
	Nowshera City, India		
	3.V.1907		

ORIGINAL DETERMINATIONCURRENT STATUS

N 304

N 304

RML 104856

Haemaphysalis punctata ♀1 ♀ Haemaphysalis punctata

Sheep

Sheep

Brooklands Farm, New Church
New Romney, KentBrooklands Farm, New Church
New Romney (50.59 N, 00.56 E)
Kent, England

IV.1907

IV.1907

Sent by Professor R. T. Hewlett

Sent by Professor R. T. Hewlett

Cited: Nuttall & Warburton
(1915: 384).

N 305, a

305, a MISSING

(305) Boophilus annulatus? ♀
(a) Amblyomma sp. N's

Off collector's clothes

Las Penas, Banderas Bay
West Coast of Mexico about
Lat. 20 N.

20.IV.1907

Maj. C. Ashburnham

"They seem to swarm there. In
fact, it is difficult to avoid them
if you go into the bush off the
road."

ORIGINAL DETERMINATIONCURRENT STATUS

N 306

Boophilus decoloratus (all stages)

Cow

Origin Cape Colony, S. Africa

VII.1907

Sent by Mr. C. P. Lounsbury

Reared at Cambridge from larvae
[23 slides, balsam mounts
all stages ♂, ♀, N, L]

N 307a, b

(a) Boophilus australis
(b) Haemaphysalis bispinosa

Wild red-deer

Kuching, Sarawak, Borneo

Sent VII.1907

Sent by Dr. A. R. Wellington

N 306

RML 104857

363 ♂, 77 ♀, 107 N, 87 L, 1 vial eggs
Boophilus decoloratus

Cow

Origin Cape Colony, Republic of
South Africa

VII.1907

Sent by Mr. C. P. Lounsbury

Slides missing. 2♂, 2♀ sent to Dr.
Fred C. Bishopp are now in the RML
Collection (Bishopp 426).

N 307a, b

RML 104858

(a) 1 ♂, 1 ♀, 1 N Boophilus microplus
(b) 1 ♀ Haemaphysalis bispinosa

Wild red-deer

Kuching (01.32 N, 110.19 E)
Sarawak, Malaysia

Sent VII.1907

Sent by Dr. A. R. Wellington

(b) Cited: Nuttall & Warburton
(1915: 433); Hoogstraal et al.
(1969: 1076).

ORIGINAL DETERMINATION

N 308

Amblyomma helvolum

Python

Kuching, Sarawak, Borneo

VII.1907

Dr. A. R. Wellington

N 309

Haemaphysalis papuana

Pig

Kuching, Sarawak, Borneo

VII.1907

Dr. A. R. Wellington

1 ♂ to C. Strickland, Malaya
 1 ♂ to A. S. Hirst, B.M.(N.H.)

CURRENT STATUS

N 308

RML 104859

1 ♀ Amblyomma helvolumPython sp.Kuching (01.32 N, 110.19 E),
Sarawak, Malaysia

VII.1907

Dr. A. R. Wellington

Cited incorrectly as N 303
 by Robinson (1926: 219).

N 309

RML 104860

1 ♂, 1 ♀ Haemaphysalis papuanaSus scrofaKuching (01.32 N, 110.19 E)
Sarawak, Malaysia

VII.1907

Dr. A. R. Wellington

Cited: Nuttall & Warburton (1915:
 407); Trapido et al. (1964a: 178);
 Hoogstraal et al. (1969: 1076)
 cited 1 ♂ Haemaphysalis bispinosa
 (Nuttall 309) from a "dog". I have
 not seen this specimen.

ORIGINAL DETERMINATIONCURRENT STATUS

N 310

N 310 MISSING

Haemaphysalis leachi

Large man-eating male lion

Katanga Dist., Congo Free State,
Lualaba River, 10°40' S Lat.

Sent 27.VII.1907

Dr. A. Yale Massey

1 ♂, 1 ♀ to Dr. J. G. Parham
Portuguese East Africa 18.IV.1913.
1 ♂, 1 ♀ to N.Y. National Museum
18.IV.1913.

N 311

N 311

RML 104861

Amblyomma pomposum ♂1 ♂ Amblyomma pomposum

Ox

Ox

Katanga Dist., Congo Free State,
Lualaba River 10°40' S. Lat.Katanga Dist. (10.40 S, 27.00 E),
Lualaba River, Zaire

27.VII.1907

27.VII.1907

Sent by Dr. A. Yale Massey

Sent by Dr. A. Yale Massey

(Note: Wants diagnosis sent him.
Has sent specimens to Neumann
hitherto, but wants to "patronize
our own schools henceforth."
Neumann named 4 new spp. off
horse sent him by Massey, viz.
Rhipicephalus lunulatus,
R. supertritus, R. attenuatus.
and R. gladiiger).

Cited: Robinson (1926: 100).

312-319. Ticks sent by Dr. H. A. Ballon, of the Imperial Department of Agriculture, Barbados, West Indies, 20.II.1907.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	312	N	312
		RML	104862
	<u>Boophilus australis</u>		7 ♀ <u>Boophilus microplus</u>
	Cow		Cow
	Barbados, W. Indies		Barbados (13.10 N, 59.32 W), West Indies
	20.II.1907		20.II.1907
	H. A. Ballon		H. A. Ballon
N	313	N	313 MISSING
	<u>Argas persicus</u>		
	Fowls		
	Trinidad		
	17.VIII.1901		
	G. H. Hart		
N	314	N	314 MISSING
	<u>Boophilus australis</u>		
	Cow		
	Barbados		
	II.1907		
	H. A. Ballon		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	315	N	315 MISSING
	<u>Argas persicus</u> , larvae		
	Fowl, attached to skin		
	Trinidad		
	28.V.1902		
	G. H. Hart		
N	316	N	316
		RML	104863
	<u>Boophilus australis</u>		3 ♀, 86 L <u>Boophilus microplus</u>
	Cattle		Cattle
	St. Philip, Barbados		St. Philip (13.10 N, 59.32 W), Barbados
	1905		1905
	Dr. Stoute		Dr. Stoute
N	317	N	317
		RML	104864
	<u>Boophilus australis</u> N's		2 N <u>Dermacentor</u> sp.
	Dog		Dog
	Barbados		Barbados
	1907		1907
	H. A. Ballon		H. A. Ballon

ORIGINAL DETERMINATIONCURRENT STATUS

N 318

Boophilus australis

Cattle

Buckley's, St. Kitts, W. Indies

14.III.1907

H. A. Ballou

N 318

RML 104865

2 ♂, 4 ♀, 1 N Boophilus microplus

Cattle

Buckley's, St. Kitts-Nevis-
Anguilla (17.21 N, 62.48 W).

14.III.1907

H. A. Ballou

N 319

Amblyomma variegatum

Antigua

VII.1904

Mr. Lidiette

Labelled No. 1 Gold Ticks

N 319 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	320 a-f	N	320a, d, e, f
		RML	104866 and RML 66580 (for 320d only)
	(a) <u>Dermacenter rhinoceratus</u>		(a) 1 ♂, 1 ♀ <u>Dermacenter rhinocerus</u>
	(b) <u>Amblyomma variegatum</u>		(b) MISSING
	(c) <u>Hyalomma aegyptium</u>		(c) MISSING
	(d) <u>Rhipicephalus falcatus</u>		(d) 1 ♂ <u>Rhipicephalus senegalensis</u>
	(e) <u>Rhipicephalus supertritus</u>		(e) 1 ♂, 2 ♀ <u>Rhipicephalus</u>
	(f) <u>Rhipicentor bicornis</u> 1 ♂, 1 ♀ Types		<u>supertritus</u>
			(f) 3 ♂ <u>Rhipicentor bicornis</u> Lectotype and paralectotypes
	North Nyasa British Central Africa		Malawi
	III.1907		III.1907
	Dr. J.E.S. Old		Dr. J.E.S. Old
	Old sent them to Mr. Lounsbury for identification who sent them to us to identify.		320e-Lectotype & paralectotypes of <u>R. coriaceus</u> Nuttall & Warburton (1908: 402) original description. Cited: Old (1909: 20); Santos Dias (1958: 475). Lectotype designated: Keirans & Brewster (1981: 169).
	320e Types of <u>R. coriaceus</u> Nutt. & Warb. I.1908 (= <u>R. supertritus</u> nn. 1907 [1 ♀ on slide in balsam]).		320f-One ♂ is mounted on 2 slides. Nuttall & Warburton (1908: 399) original description. Lectotype designated: Keirans & Brewster (1981: 169).
	320f. Types of <u>Rhipicentor bicornis</u> [2 slides, Type ♂ in balsam (i) body, ect. (ii) capitulum].		
N	321	N	321
		RML	104867
	<u>Rhipicentor bicornis</u> 1 ♀		1 ♀ <u>Rhipicentor bicornis</u>
	Benguella, W. Africa		Benguela (12.35 S, 13.25 E), Angola
	1907		1907
	Rec'd from Dr. F. Creighton Wellman		Rec'd from Dr. F. Creighton Wellman
			The vulva of this ♀ is mounted on a slide.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	322	N	322 MISSING
<u>Ixodes hexagonus</u> 1 ♀			
<u>Mustela putorius</u> ferret			
Probably British			
Gift of Hon. N. C. Rothschild R929 (Mounted in glycerin in glass cell)			
N	323	N	323
<u>Rhipicephalus sanguineus</u>		RML	104868
Ear and neck of an old male rat (<u>Mus rattus</u>)		1 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>	
Nowshera Cantonments N.W. Frontier Province, India		<u>Rattus rattus</u>	
Rec'd 3.VI.1907		Nowshera (34.01 N, 71.59 E), Pakistan	
Rec'd from Colonel B. Skinner, R.A.M.C.		Rec'd 3.VI.1907	
		Rec'd from Colonel B. Skinner, R.A.M.C.	
N	324	N	324 MISSING
<u>Ixodes hexagonus</u> 3 N			
<u>Erinaceus europaeus</u>			
Probably British			
Gift of Hon. N. C. Rothschild (3 slides R 944-946)			

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	325	N	325
		RML	104869
	<u>Boophilus australis</u>		1 ♂, 18 ♀, 3 N <u>Boophilus microplus</u>
	Goat		Goat
	Sarawak, Borneo		Sarawak, Malaysia
	30.VI.1907		30.VI.1907
	Dr. A. R. Wellington		Dr. A. R. Wellington
			Nymphs in a separate vial.
N	326	N	326 MISSING
	<u>Amblyomma personatum</u> ♀		
	Rhinoceros		Two pinned ♀ are in the
	Nairobi, British Central Africa		BMNH collection.
	Sent 1.III.1907		
	Sent by Dr. Philip H. Ross		
	See No. 250.		
N	327	N	327
		RML	104870
	<u>Haemaphysalis bispinosa</u> var. <u>intermedia</u>		2 ♀ <u>Haemaphysalis kutchensis</u> Paratypes
	Cat		Cat
	Agra, India		Agra (27.11 N, 78.01 E), India
	Sent 14.IX.1907		Sent 14.IX.1907
	Sent by Dr. E. H. Hankin		Sent by Dr. E. H. Hankin
	Cotypes with 515a		Hoogstraal & Trapido (1963a: 489), original description.

ORIGINAL DETERMINATIONCURRENT STATUS

N 328

N 328 MISSING

Hyalomma aegyptium larvaeRat (Mus rattus)Nowshera, N.W. Frontier
Province, India

Sent 13.VI.1907

Sent by Colonel B. Skinner

Mounted on 2 slides

N 329

N 329

RML 104871

Rhipicephalus capensis ♂ ♀
(Type)1 ♂, 1 ♀ Rhipicephalus capensis

German S.W. Africa

Namibia

Sent 26.X.1907

Sent 26.X.1907

Sent by Professor W. Donitz
of Berlin.

Sent by Professor W. Dónitz

(Considers them certainly "capensis"
in view of their source).

These specimens are not types.

ORIGINAL DETERMINATIONCURRENT STATUS

N 330

N 330

RML 105560

Rhipicephalus capensis ♂♂ ♀2 ♂ Rhipicephalus jeanneli
1 ♀ Rhipicephalus punctatus

Aruscha German East Africa

Aruscha (03.22 S, 36.41 E),
Tanzania

Sent 1907

Sent 1907

Sent by Professor W. Donitz

Sent by Professor W. Dönitz

[Dönitz writes of these: "I can't determine those otherwise than as Rhip. capensis. Neumann's Rhip. compositus from Khartoum is unknown to me from personal observation; it is stated not to have confluent punctations (if my memory serves me right). In all specimens I have examined this depends much on the illumination. If you place a ♂ horizontally & illuminate it from head end, the punctations all appear discrete. Illuminate the tick sideways and punctations appear arranged in rows & partly confluent. The Rhipicephalus from German S. W. Africa have somewhat fewer punctations than my specimens from Central Africa, & for this reason agree more closely with Rhipicephalus compositus" [Dönitz thinks that when Neumann described his R. compositus he was unable to determine the specimens from Koch's description & figures. Later he saw they were one and the same, but wishing to save his name he sought for differences which he thought to find in the punctations. If such differences exist can only be decided upon the examination of further ticks from the South, which we should get easier than he can]. He presents us with 329 and 330 for our collection. (Free translation of a letter from Prof. Dönitz by G.H.F.N. 29.X.1907)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	331	N	331
		RML	104872
	<u>Hyalomma aegyptium</u> 4 ♂		4 ♂ <u>Hyalomma anatolicum excavatum</u>
	Mule		Mule
	Rhabat, Morocco		Rhabat (34.02 N, 06.51 W), Morocco
	24.IX.1907		24.IX.1907
	Major C. Ashburnham		Major C. Ashburnham
N	332	N	332
		RML	104873
	<u>Hyalomma aegyptium</u>		8 ♀ <u>Hyalomma marginatum</u>
	The Sultan's baggage camels		The Sultan's baggage camels (<u>Camelus dromedarius</u>)
	Rhabat, Morocco		Rhabat (34.02 N, 06.51 W), Morocco
	24.IX.1907		24.IX.1907
	Major C. Ashburnham		Major C. Ashburnham
	333	N	333
		RML	104874
	<u>Argas brumpti</u>		1 ♀ <u>Argas brumpti</u>
	Dakoto Valley Somaliland		Dakoto or Dakhatto Valley, Somali Democratic Republic (locality not verified)
	1901		1901
	Dr. Brumpt		Dr. Brumpt
	Dr. Brumpt sent this specimen, only has 4 thereof left. "He bears large scars on his body due to this tick bite. I saw the scars when I met Dr. Brumpt in Paris in 1905." Rec'd. XII.1905 G.H.F.N.		The locality is spelled Dakhatto Valley in Nuttall, et al. (1908a: 33).

334-338. Ticks received from Dr. A. Yale Massey 7.I.1908, who collected them in N. W. Rhodesia.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	334	N	334
		RML	104875
	<u>Rhipicephalus</u> sp. N		1 N <u>Rhipicephalus</u> sp.
	Man		<u>Homo sapiens</u>
	N. W. Rhodesia		Zambia
	Rec'd 7.I.1908		Rec'd 7.I.1908
	Rec'd from Dr. A. Yale Massey		Rec'd from Dr. A. Yale Massey
N	335	N	335 MISSING
	<u>Hyalomma aegyptium</u> ♀		
	N.W. Rhodesia		
	Rec'd 7.I.1908		
	Rec'd from Dr. A. Yale Massey		
N	336	N	336
		RML	104876
	<u>Amblyomma pomposum</u> 2 ♂'s		2 ♂ <u>Amblyomma pomposum</u>
	Eland		<u>Taurotragus oryx</u>
	N.W. Rhodesia		Zambia
	9.IX.1907		9.IX.1907
	Rec'd from Dr. A. Yale Massey		Rec'd from Dr. A. Yale Massey

ORIGINAL DETERMINATIONCURRENT STATUS

N	337a, b	N	337a
		RML	104877
	(a) <u>Amblyomma pomposum</u>		(a) 5 ♂ <u>Amblyomma pomposum</u>
	(b) <u>Rhipicephalus capensis</u> var. <u>compositus</u>		(b) MISSING
	Buffalo		<u>Syncerus caffer</u>
	Katanga, Congo Free State		Katanga (08.00 S, 27.00 E), Zaire
	25.VIII.1907		25.VIII.1907
	Rec'd from Dr. A. Yale Massey		Rec'd from Dr. A. Yale Massey
	1 ♂, 1 ♀ of 337b sent to E. Brumpt, Paris		Cited: Santos Dias (1958: 516) as <u>Amblyomma superbum</u>
N	338	N	338
		RML	104878
	<u>Amblyomma pomposum</u>		15 ♂ <u>Amblyomma pomposum</u>
	Hartebeest		<u>Alcelaphus buselaphus</u>
	Katanga, Congo Free State		Katanga (08.00 S, 27.00 E), Zaire
	27.VIII.1907		27.VIII.1907
	Rec'd from Dr. A. Yale Massey		Rec'd from Dr. A. Yale Massey
	1 ♂ sent to R. W. Mettam Weybridge IV.1931		Cited: Robinson (1926: 100); Santos Dias (1958: 516) as
	1 ♂ sent to H. S. Purchase IV.1931		<u>Amblyomma superbum</u> .

339-345. Ticks received 9.I.1908 from R. T. Hewlett, of King's College, Strand, London. W. C., who received them from the Bacteriological Institute, Brisbane, Queensland, Australia, together with a memorandum giving the following particulars (Name ticks and return those we don't require):

N	339	N	339
		RML	104879
	<u>Ixodes fecilais</u> var. <u>aegrifossus</u> TYPES (scrub ticks) ♀♀♀		2 ♀ <u>Ixodes fecialis</u> Lectotype and paralectotype of <u>I. f. aegrifossus</u>
	Opossum		Opossum
	Tamberine Mountain, Logan River, S. E. Queensland		Tamberine Mountain, Logan River (27.43 S, 153.18 E), Queensland, Australia
	IV.1907		IV.1907
	[1 ♀'s Capitulum mounted in balsam on slide]		Warburton & Nuttall (1909: 59), original description.
			Token tube indicates a slide of of ♀ capitulum. Missing 1978. Cited: Nuttall & Warburton 1911: 250). Lectotype designated: Keirans & Brewster (1981: 166).
N	340	N	340
		RML	104880
	<u>Amblyomma triguttatum</u>		4 ♀ <u>Amblyomma triguttatum</u>
	Horse		Horse
	Albert River, Burketown		Albert River, Burketown (17.44 S, 139.22 E), Queensland, Australia
	V.1896		V.1896
			Cited: Robinson (1926: 57).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	341	N	341
		RML	104881
	<u>Rhipicephalus sanguineus</u> ♀'s		7 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Lower Burderkin River, N. Queensland		Lower Burderkin River (19.39 S, 147.30 E), Queensland, Australia
	IX.1897		IX.1897
N	342	N	342 MISSING
	<u>Rhipicephalus sanguineus</u> 2 ♂, 1 ♀		
	Dog		
	Lower Burderkin River, N. Queensland		
	IX.1897		
N	343	N	343 MISSING
	<u>Rhipicephalus sanguineus</u> ♂ & ♀		
	Dog		
	Lower Burderkin River, N. Queensland		
	IX.1897		
	1 ♂, 1 ♀ to Prof. Hewlett Kings College, London		

ORIGINAL DETERMINATIONCURRENT STATUS

N 344

Boophilus australis ♂ & ♀'s

Dog

Lower Burderkin River,
N. Queensland

IX.1897

1 ♂, ♀'s to Prof. Hewlett, Kings
College, London.1 ♂, 1 ♀ to Prof. E. Brumpt, Ecole
Médécine, Paris 12.X.1922

N 344

RML 104882

5 ♂, 15 ♀ Boophilus microplus

Dog

Lower Burderkin River (19.39 S,
147.30 E), Queensland, Australia

IX.1897

N 345 a - e

- (a) Boophilus australis ♀'s
- (b) Boophilus australis ♀'s
- (c) Boophilus australis ♂
- (d) Boophilus australis larvae & eggs
- (e) Boophilus australis ♀'s

Cattle

Roper River, Northern Territory
Australia

XII.1894

- (a) [♂ & ♀ mounted as slides]
- (b) ready to oviposit. Note yellow
spot.
- (c) full-grown males
- (e) young female cattle ticks
- (c) 1 ♂ to C. Strickland, Malaya
- (c) 2 ♂, 1 ♀ to Prof. Hewlett,
Kings College, London

N 345 a - e

RML 104883

- (a) 14 ♀ Boophilus microplus
- (b) 14 ♀ Boophilus microplus
- (c) 20 ♂ Boophilus microplus
- (d) ±1000 larvae & eggs mixed
Boophilus microplus
- (e) 15 ♀, 3 N Boophilus microplus

Cattle

Roper River (14.43 S, 135.27 E)
Northern Territory, Australia

XII.1894

ORIGINAL DETERMINATIONCURRENT STATUS

N 346

N 346

RML 104884

Ornithodoros moubata1 ♂, 6 N Ornithodoros moubata

Blantyre

Blantyre (15.47 S, 35.00 E),
Malawi

Rec'd 21.I.1908

Rec'd 21.I.1908

Col. Leishman

Col. Leishman

Moulted skins of 2 adults & 2
nymphs, born X.1907, first fed 11.I.1908.
The living specimens (346a) he gave me
were received from Blantyre in June &
were fed last on 10.VIII.1907.

Also 2 vials of nymphs. William
Boog Leishman (1865-1926) Medical
graduate, Univ. Glasgow. Worked
in India until 1895. Then worked
extensively on spirochaetes of
relapsing fever and it's vector,
Ornithodoros moubata.

N 347

N 347

RML 104885

Hyalomma syriacum2 ♂ Hyalomma aegyptium

Tortoise

Tortoise

Cambridge, England

Cambridge (52.13 N, 00.08 E),
England

Rec'd 27.I.1908

Rec'd 27.I.1908

Rec'd from Mr. Clay

Rec'd from Mr. Clay

1 ♂ to J. de Meza, Zomba
Nyasaland 19.II.1916

ORIGINAL DETERMINATIONCURRENT STATUS

N 348

1 ♂ Ornithodoros turicata
COTYPE

Guanajuato, Mexico

Sent by Dr. A. Dugès

[1 slide with tarsus 2 in balsam]
Presented to me by Professor
Neumann (Toulouse) 29.I.1908

N 348

RML 104886

1 ♂ Ornithodoros turicata
SYNTYPEGuanajuato (21.01 N, 101.15 W),
Mexico

Sent by Dr. A. Dugès

♂ tarsus on slide
Dugès (1876) p. 11,
original description

N 349

Ornithodoros coriaceus 1 ♂, 2 ♀, 3 N

Isthmus of Tehuantepec, Mexico

I.1908

Mrs. Z. Nuttall

One of the 2 large ones (arrived
alive) gave her a painful bite
which bled when the tick was
removed & was troublesome after-
wards - it bit through a stocking.
The 4 small ones arrived dead. Rec'd
16.II.1908. Native name "talajas"

N 349

RML 104887

1 ♂, 2 ♀, 1 N Ornithodoros
coriaceusIsthmus of Tehuantepec
(17.00 N, 95.00 W), Mexico

I.1908

Mrs. Z. Nuttall

Mrs. Zelia Nuttall was the
author of the Nuttall Codex
and sister of G.H.F. Nuttall.

350-353. Ticks sent by Dr. F. Creighton Wellman from Benguella Hinterland, Angola, W. Africa (Long. E. 15°05' X Lat. S 12°44', altitude 1360 meters) received 30.XII.1907.

N 350

N 350

RML 104888

Ixodes cavipalpus 3 ♀3 ♀ Ixodes cavipalpus

Ear of Duiker bok

Ear of Sylvicapra grimmia

Benguella Hinterland, Angola

Benguela (12.44 S, 15.05 E),
Angola

Rec'd 3.XII.1907

Rec'd 3.XII.1907

Sent by Dr. F. Creighton Wellman

Sent by Dr. F. Creighton Wellman

N 351

N 351

RML 104889

Rhipicephalus longiceps
TYPES18 ♂, 2 ♀ Rhipicephalus longiceps
Lectotype and paralectotypes.

Klipspringer bok

Oreotragus oreotragusBenguella Hinterland, Angola
(1360 meters)

Benguela (12.35 S, 13.25 E), Angola

Rec'd 3.XII.1907

Rec'd 3.XII.1907

Sent by Dr. F. Creighton Wellman

Sent by Dr. F. Creighton Wellman

Warburton (1912: 11), original de-
scription1 ♂ of the above total is in the
tick abnormalities jar and cited
by Nuttall (1914a: 253).Santos Dias (1958: 478) listed
12 ♂, 1 ♀ present in this collect-
ion. Lectotype designated: Keirans
& Brewster (1981: 170).

ORIGINAL DETERMINATIONCURRENT STATUS

N 352

Rhipicephalus appendiculatus ♂ ♀

African rabbit (or hare)

Benguella Hinterland, Angola

Rec'd 30.XII.1907

Sent by Dr. Creighton Wellman

1 ♂, 1 ♀ to W. D. Hunter, U.S.D.A.
Washington

N 353

Ixodes cavipalpus ♂

native baby

Benguella Hinterland, Angola

Rec'd 30.XII.1907

Sent by Dr. F. Creighton Wellman

N 352

RML 64000

8 ♂, 4 ♀ Rhipicephalus punctatus

African rabbit (or hare)

Benguela (12.44 S, 15.05 E), Angola

Rec'd 30.XII.1907

Sent by Dr. F. Creighton Wellman

1 ♂, 1 ♀ are in the RML
collection (Bishopp 431)

N 353

RML 104890

1 ♂ Ixodes cavipalpus

Homo sapiens (native baby)

Benguela (12.44 S, 15.05 E), Angola

Rec'd. 30.XII.1907

Sent by Dr. F. Creighton Wellman

Cited: Nuttall & Warburton
(1911: 194).

ORIGINAL DETERMINATIONCURRENT STATUS

N 354

Argas reflexus

Magdeburg, Germany

27.II.1908

Sent by Dr. Fulleborn of Hamburg

[mounted skin, last stage nymph,
dorsum on slide in balsam]

N 355

Ixodes ricinus

Wild cat

Invernesshire, Scotland

25.IV.1907

Rec'd from Dr. E. A. Wilson

N 356

Ixodes tenuirostris larvaeEar of Sorex minutus

Grippetts, Gloucestershire, England

12.I.1908

Dr. E. A. Wilson

N 354

RML 104891

1 ♂ Argas reflexusMagdeburg (52.10 N, 11.40 E),
Democratic Republic of Germany

27.II.1908

Sent by Dr. Fulleborn of Hamburg

4 cast skins also present.
Slide missing,

N 355 MISSING

N 356

RML 104892

4 L Ixodes triangulicepsEar of Sorex minutusGrippett's, Gloucestershire
(51.50 N, 02.15 W), England

12.I.1908

Dr. E. A. Wilson

I did not mount any of these
specimens on slides so the ID
must be considered tentative.
Cited: Nuttall & Warburton
(1911: 248); Thompson (1968: 146).

ORIGINAL DETERMINATIONCURRENT STATUS

N 357

N 357 MISSING

Ixodes hexagonus

i larva

ii nymph

raised in laboratory
(Cambridge, England)

[2 slides in balsam]

N 358

N 358 MISSING

Ixodes hexagonus 2 ♂

Hedgehog

Grantchester, Cambs.

Dissection of parts 4 slides

i-iv some fig in ticks

Part [2 slides]

N 359

N 359

RML 104893

Ornithodoros moubata eggs,
larval skins, nymphs of 1st stage

Raised in Cambridge laboratory

Rec'd IV.1907

Rec'd from Mr. Newstead
(School of Trop. Med.) LiverpoolOne vial of eggs Ornithodoros
moubata

Originally from Africa

Rec'd IV.1907

Rec'd from Mr. Newstead
(School of Trop. Med.) Liverpool

ORIGINAL DETERMINATIONCURRENT STATUS

N 360

N 360

RML 104894

Ixodes nitens 1♀
COTYPE1 ♀ Ixodes nitens
SYNTYPEMus macleariRattus macleari

Christmas Island, Pacific Ocean

Christmas Island (10.30 S,
105.40 E).

Hon. N. C. Rothschild

Hon. N. C. Rothschild

(ex Shipley's coll. "No. 2")

Neumann (1904: 460), original
description.
Cited: Nuttall & Warburton
(1911: 185).

361-366. Ticks received from Dr. A. Theiler, Government Veterinary
Bacteriologist, Dept. of Agriculture, Pretoria, Transvaal, S. Africa;
II.1908.

N 361

N 361 MISSING

Rhipicephalus evertsi N'sNo data re host

Pretoria, Transvaal, South Africa

Rec'd II.1908

Rec'd from Dr. A. Theiler

N 362

N 362 MISSING

Hyalomma aegyptium ♂, ♀'s
(unfed), ♀'s (gorged)No data re host

Pretoria, Transvaal, South Africa

Rec'd II.1908

Rec'd from Dr. A. Theiler

ORIGINAL DETERMINATIONCURRENT STATUS

N 363

Rhipicephalus appendiculatus
larvae (gorged)

No data re host

Pretoria, Transvaal, South Africa

Rec'd II.1908

Rec'd from Dr. A. Theiler

N 363 MISSING

N 364

Rhipicephalus evertsi 1 ♂, 4 ♀

No data re host

Pretoria, Transvaal, South Africa

Rec'd II.1908

Rec'd from Dr. A. Theiler

N 364 MISSING

N 365

Rhipicephalus appendiculatus
N's (unfed)

No data re host

Pretoria, Transvaal,
South Africa

Rec'd II.1908

Rec'd from Dr. A. Theiler

N 365

RML 104895

22 N Rhipicephalus appendiculatus

No data re host

Pretoria (25.45 S, 28.10 E),
Transvaal, Republic of S. Africa

Rec'd II.1908

Rec'd from Dr. A. Theiler

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	366	N	366
		RML	104896
	<u>Hyalomma aegyptium</u> larvae		±2000 L <u>Hyalomma</u> sp.
	No data <u>re</u> host		No data <u>re</u> host
	Pretoria, Transvaal, South Africa		Pretoria (25.45 S, 28.10E), Transvaal, Republic of S. Africa
	Rec'd II.1908		Rec'd II.1908
	Rec'd from Dr. A. Theiler		Rec'd from Dr. A. Theiler
N	367	N	367
		RML	66620
	<u>Rhipicephalus bursa</u> , all stages		1 ♂, 4 N, 1 L <u>Rhipicephalus bursa</u>
	Bucharest, Roumania		Bucharest (44.26 N, 26.06 E), Roumania
	Sent 19.II.1908		Sent 19.II.1908
	Sent by Prof. C. S. Motas		Sent by Prof. C. S. Motas
N	368	N	368
		RML	104897
	<u>Rhipicephalus neavei</u> 1 ♀		1 ♀ <u>Rhipicephalus kochi</u>
	Cattle		Cattle
	Makindani, German, East Africa		Mikindani, now Mtwara (10.16 S, 40.11 E), Tanzania
	Sent 7.III.1908		Sent 7.III.1908
	Sent by Professor W. Dönitz		Sent by Professor W. Dönitz
	[To compare with our <u>Rhip.</u> <u>masseyi</u> & to keep].		

ORIGINAL DETERMINATIONCURRENT STATUS

N 369

N 369

RML 104898

Ornithodoros tholozani ♂ ?1 ♂ Ornithodoros lahorensis

Sheep

India

Rec'd V.1907

Rec'd V.1907

Rec'd from Mr. R. Newstead,
School of Trop. Med., LiverpoolRec'd from Mr. R. Newstead,
School of Trop. Med., Liverpool[Described as O. lahorensis by
Neumann, 1908, we determined it as
O. tholozani]Host and locality data were
on vial label but not entered
in the catalogue.370-373. Ticks received 31.III.1908, from Dr. P. Hood, Senior Medical
Officer, Bathurst, Colony of Gambia.

N 370

N 370

RML 104899

Hyalomma aegyptium14 ♂, 4 ♀ Hyalomma rufipes

Cattle

Cattle

Gambia

Gambia

1.II.1908

1.II.1908

Dr. P. Hood

Dr. P. Hood

1 ♂, 1 ♀ to J. deMeza, Zomba,
Nyasaland 19.II.1916

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	371	N	371
		RML	104900
	<u>Rhipicephalus sanguineus</u> ♂'s, ♂'s		1 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Gambia		Gambia
	16.II.1908		16.II.1908
	Dr. P. Hood		Dr. P. Hood
	"brownny-red" of collection		Specific locality taken from vial label.
N	372a-c	N	372a, b
		RML	104901
	(a) <u>Boophilus decoloratus</u> 1 ♂, many ♀'s		(a) 23 ♀ <u>Boophilus decoloratus</u>
	(b) <u>Hyalomma aegyptium</u> 2 ♂, many ♀'s		(b) 1 ♀ <u>Hyalomma truncatum</u>
	(c) <u>Amblyomma variegatum</u> 1 ♂		(b) 1 ♀ <u>Hyalomma rufipes</u>
			(b) 11 N <u>Hyalomma</u> sp.
	Fawn-colored cow		(c) MISSING
			Cow
	Gambia		Banjul (13.27 N, 16.35 W), Gambia
	20.II.1908		20.II.1908
	Dr. P. Hood		Dr. P. Hood
			Specific locality listed as Bathurst, taken from vial label.
N	373a, b	N	373a, b MISSING
	(a) <u>Boophilus decoloratus</u> 1 ♀		
	(b) <u>Amblyomma variegatum</u> 1 ♂, 1 N		
	Cattle		
	Gambia		
	5.II.1908		
	Dr. P. Hood		

374-378. Ticks brought 31.III.1908 by Mrs. Zelia Nuttall from Mexico, where they were collected by Mr. Horace Levesley at Santa Lucrezia, Isthmus of Tehuantepec 1-15.II.1908; - "Some (fat ones) collected from horses, others from man; the starved ones from the weeds." Considered to be 4 different kinds; the native names being on the 4 bottles. Only the larvae arrived alive (377) bottle damp inside; ticks placed, after washing, in 70% spirit: -

ORIGINAL DETERMINATION

CURRENT STATUS

N	374a, b	N	374a, b
		RML	104902
	(a) <u>Amblyomma cajennense</u> ♂'s & ♀'s (b) <u>Amblyomma cajennense</u> ♀'s, N's (unfed) & N's (gorged)		(a) 75 ♂, 3 N <u>Amblyomma cajennense</u> (b) 1 ♂, 121 ♀ <u>Amblyomma cajennense</u>
	Santa Lucrezia, Tehuantepec, Mexico		Jesus Carranza (17.26 N, 95.02 W), Tehuantepec, Mexico
	1-15.II.1908		1-15.II.1908
	Horace Levesley		Horace Levesley
	1 ♂, 1 ♀ to A. D. Imms, Allahabad University, India. 1 ♂, 1 ♀ to Prof. Kellogg, Stanford. 1 ♂, 1 ♀ to Prof. G. H. Carpenter, Royal College of Sciences, Dublin 19.I.1910. 1 ♂, 1 ♀ to Dr. G. S. Graham-Smith Medical Schools, Cambridge, 19.I.1910. 1 ♂, 1 ♀ to E. E. Green [F.E.S.] Gov. Entomologist, Ceylon 19.I.1910. 1 ♂, 1 ♀ to Dschunkowsky, Trans- caucasus 19.I.1910. 1 ♂, 1 ♀ to Dr. Edmund Sergeant, Algeria, N. Africa 19.IV.1910. 1 ♂, 1 ♀ to Dr. H. de B. Aragao Brazil 23.I.1910. 1 ♂, 1 ♀ to Col. A. Alcock, FRS London School Trop. Med. 26.I.1910. 1 ♂, 1 ♀ to Prof. Galli-Valerio, Lausanne, Switzerland 4.III.1912. 1 ♂, 1 ♀ to Dr. M. Miyajima, Tokio, Japan 7.III.1912. 1 ♂, 1 ♀ to G. L. Tuck, Tientsin, China 17.II.1912. 1 ♂, 1 ♀ to A. H. Cockayne, Wellington, N.Z. Native name, "Vermejas"		The vial labels for this collection read 374 and 374a but to conform to the catalogue format I have listed them as 374a and b. Cited: Robinson (1926: 53).

ORIGINAL DETERMINATIONCURRENT STATUS

N	375 a - c	N	375 a
		RML	104903
	(a) <u>Amblyomma cajennense</u> gorged larvae & N's		(a) 38 N, 8 L <u>Amblyomma cajennense</u>
	(b) <u>Amblyomma cajennense</u> gorged N's		(b) MISSING
	(c) <u>Amblyomma cajennense</u> 1 ♀		(c) MISSING
	Santa Lucrezia, Tehuantepec, Mexico		Jesus Carranza (17.26 N, 95.02 W), Tehuantepec, Mexico
	1-15.II.1908		1-15.II.1908
	Horace Levesley		Horace Levesley
	Native name "Conchudas"		Vial label reads 375 but to conform to the catalogue format I have listed it as 375a.
N	376a, b	N	376a
		RML	104904
	(a) <u>Amblyomma cajennense</u> unfed N's		(a) 82 N <u>Amblyomma cajennense</u>
	(b) <u>Amblyomma cajennense</u> gorged N's		(a) 1 ♂ <u>Anocentor nitens</u>
			(b) MISSING
	Santa Lucrezia, Tehuantepec, Mexico		Jesus Carranza (17.26 N, 95.02 W) Tehuantepec, Mexico
	1-15.II.1908		1-15.II.1908
	Horace Levesley		Horace Levesley
	Native name "Garrapatas"		The <u>Amblyomma cajennense</u> collection cited Robinson (1926: 53).

ORIGINAL DETERMINATIONCURRENT STATUS

N	377a, b	N	377a, b
		RML	104905
	(a) <u>Amblyomma cajennense</u> larvae		(a&b) several thousand larvae
	(b) <u>Amblyomma cajennense</u> nymphs		<u>Amblyomma cajennense</u>
	Santa Lucrezia, Tehuantepec, Mexico		Jesus Carranza (17.26 N, 95.02 W), Tehuantepec, Mexico
	1-15.II.1908		1-15.II.1908
	Horace Levesley		Horace Levesley
	Native name "Pinolillos"		Cited: Robinson (1926: 53).
N	378	N	378
		RML	104906
	<u>Dermacentor nitens</u> (gorged but shrivelled)		3 ♀ <u>Anocentor nitens</u>
	Santa Lucrezia, Tehuantepec, Mexico		Horses
	1-15.II.1908		Jesus Carranza (17.26 N, 95.02 W), Tehuantepec, Mexico
	Horace Levesley		1-15.II.1908
	Had oviposited en route from Mexico came mixed with lot 374		Horace Levesley
			Host information taken from vial label.

379-386. Ticks received, 8.IV.1908, from Mr. W. D. Hunter, Bureau of Entomology, U.S. Dept. of Agriculture, Dallas, Texas, U.S. America.

ORIGINAL DETERMINATION

CURRENT STATUS

N	379	N	379
		RML	104907
	<u>Argas persicus</u>		1 ♂, 3 ♀ <u>Argas radiatus</u>
	Fowl house		Fowl house
	Texas		Texas, U.S.A.
	XI.1907		XI.1907
	D. Hannis		D. Hannis
	(labelled <u>A. miniatus</u> Koch)		Walter David Hunter (1875-1925) Chief of section of insects affecting southern field crops, Bureau of Entomology. He worked on ticks and cotton pests and was president of American Association of Economic Entomologists.
N	380	N	380
		RML	104908
	<u>Amblyomma americanum</u> 2 ♀'s		2 ♀ <u>Amblyomma americanum</u>
	Goats		Goats
	Kerrville, Texas		Kerrville (30.03 N, 99.08 W), Texas, U.S.A.
	V.1907		V.1907
	Rec'd from W. D. Hunter		W. D. Hunter
			Collector's name taken from vial label
N	381	N	381 MISSING
	<u>Amblyomma cajennense</u> ♂, ♀'s		
	Horse		
	Brownsville, Texas		
	IV.1907		
	Rec'd from W. D. Hunter		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	382	N	382
		RML	104909
	<u>Amblyomma maculatum</u> ♂, ♀'s		1 ♂, 2 ♀ <u>Amblyomma maculatum</u>
	Cattle		Cattle
	Victoria, Texas		Victoria (28.48 N, 97.00 W), Texas, U.S.A.
	X.1906		X.1906
	Rec'd from W. D. Hunter		Rec.d from W. D. Hunter
			Cited: Robinson (1926: 44).
N	383	N	383 MISSING
	<u>Boophilus annulatus</u> 2 ♂, 2 ♀ (gorged)		
	Cows		
	Dallas, Texas		
	IV.1908		
	Rec'd from W. D. Hunter		
N	384	N	384
		RML	104910
	<u>Haemaphysalis leporispalustris</u> 2 ♂, 2 ♀		2 ♂, 1 ♀ <u>Haemaphysalis</u> <u>leporispalustris</u>
	Rabbit		Rabbit
	Maverick Co., Texas		Maverick Co. (28.40 N, 100.25 W), Texas, U.S.A.
	V.1906		V.1906
	Rec'd from W. D. Hunter		Rec'd from W. D. Hunter

ORIGINAL DETERMINATIONCURRENT STATUS

N 385

Dermacentor nitens 2 ♂, 2 ♀

Horses ears

Brownsville, Texas

21.XI.1907

Rec'd from W. D. Hunter

N 385

RML 104911

2 ♂, 2 ♀ Anocentor nitens

Horses ears

Brownsville (25.54 N, 97.30 W),
Texas, U.S.A.

21.XI.1907

Rec'd from W. D. Hunter

N 386

Dermacentor variabilis 2 ♂, 2 ♀

Dogs

Jackson Co., Texas

15.III.1907

Rec'd from W. D. Hunter

N 386

RML 104912

2 ♂, 2 ♀ Dermacentor variabilis

Dogs

Jackson Co. (29.00 N, 96.30 W),
Texas, U.S.A.

15.III.1907

Rec'd from W. D. Hunter

Total includes 1 ♂, 1 ♀ mounted
on a slide

N 387

Ornithodoros megnini ♂, ♀, N

Cow's ear

Laredo, Texas

XI.1907

[2 nymphs mounted dry in cells
on slides]

N 387 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N

388

N

388

RML

104913

Rhipicephalus bursa 2 ♂, 1 ♀2 ♂ Rhipicephalus bursa

Allassio, Italy

Allassio (44.00 N, 08.10 E), Italy

IV.1908

IV.1908

Rec'd from Mr. Scott

Rec'd from Mr. Scott

N

389

N

389

RML

115895

Hyalomma aegyptium 1 ♂1 ♂ Hyalomma anatolicum excavatum

Off?

Allassio, Italy

Allassio (44.00 N, 08.10 E), Italy

IV.1908

IV.1908

Mr. Scott

Mr. Scott

390-394. Ticks from Benguella, Angola, W. Africa, 3.V.1908, and delivered by the collector, Dr. F. Creighton Wellman, in person. The bottle contained the following species:

N

390

N

390 MISSING

Ornithodoros moubata adults and nymphs

Benguella, Angola

3.V.1908

Dr. F. Creighton Wellman

Some (no. & sex not stated) to Prof. Dryer, Parasit. Dept., Oxford and also to Dr. J. H. Ashworth 22.VI.1910

ORIGINAL DETERMINATIONCURRENT STATUS

N 391

Boophilus decoloratus ♂, ♀♀

Cattle

Benguela, Angola

3.V.1908

Dr. F. Creighton Wellman

Called "Ohupa" by natives

N 391

RML 104914

5 ♂, 106 ♀ Boophilus decoloratus

Cattle

Benguela (12.35 S, 13.25 E), Angola

3.V.1908

Dr. F. Creighton Wellman

N 392

Amblyomma pomposum

Benguela, Angola

3.V.1908

Dr. F. Creighton Wellman

Called "etengi" by natives

N 392

RML 104915

2 ♂ Amblyomma pomposum

Benguela (12.35 S, 13.25 E), Angola

3.V.1908

Dr. F. Creighton Wellman

Cited: Robinson (1926: 100).

N 393

Rhipicephalus capensis ♂ ♀
Rhipicephalus longiceps
TYPES

Benguela Angola

3.V.1908

Dr. F. Creighton Wellman

N 393

RML 66672

2 ♂ Rhipicephalus sulcatus
15 ♂, 2 ♀ Rhipicephalus longiceps
Paralectotypes

Benguela (12.35 S, 13.25 E), Angola

3.V.1908

Dr. F. Creighton Wellman

Warburton (1912: 11), original description. Paralectotypes designated: Keirans & Brewster (1981: 170).

ORIGINAL DETERMINATIONCURRENT STATUS

N	394	N	394
		RML	104916
	<u>Ixodes cavipalpus</u> 3 ♂, 1 ♀ (gorged)		1 ♂, 3 ♀ <u>Ixodes cavipalpus</u>
	Benguella Angola		Benguela (12.35 S, 13.25 E), Angola
	1908		1908
	Dr. F. Creighton Wellman		Dr. F. Creighton Wellman
			Cited: Nuttall & Warburton (1911: 194).
N	395	N	395 MISSING
	<u>Ixodes unicavatus</u> 3 larvae		
	<u>Phalacrocorax graculus</u>		
	Probably British		
	Gift of Hon. N. C. Rothschild		
	Mounted on 3 slides R988-90 G.H.F.N. det. 13.II.1915		
N	396	N	396 MISSING
	<u>Ixodes brunneus</u> ? 1 N		
	<u>Erithacus rubecula</u> (robin)		
	Probably British		
	Gift of Hon. N. C. Rothschild		
	Mounted on a slide R1032		

ORIGINAL DETERMINATIONCURRENT STATUS

N 397

N 397 MISSING

Amblyomma hirtum 1 ♂

Bird (in spirit)

Galapagos Islds, Pacific Ocean
(W. of Ecuador)

Gift of Hon. N. C. Rothschild

Mounted on a slide R911
L.E.R. det. 6.III.1915

N 398

N 398 MISSING

Haemaphysalis cinnabarina var.
punctata 3 ♂, 3 ♀, 4 N

Sheep

Kent

mounted as slides VII-VI.1905

In connection with our work on the
anatomy of this species published
in Journal of Hygiene, vol. V
(Nuttall, Cooper & Robinson).
They were collected off sheep
in Kent for us at various times
[11 slides]

♂ I-III N VII-X
♀ IV-VI L's XI

The correct citation for the
anatomy of Haemaphysalis punctata
should be Nuttall, Cooper &
Robinson 1908b Parasitology
1: 152-181.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	399	N	399
		RML	16471
	<u>Ixodes hexagonus</u> ♀'s & N's		3 ♀, 2 N, 1 L <u>Ixodes hexagonus</u>
	Stoat		<u>Mustela erminea</u>
	Histon, Cambs.		Histon (52.15 N, 00.06 E), Cambs., England
	12.V.1908		12.V.1908
	Mr. Orpen		Mr. Orpen
	1 ♀ to Col. A. Alcock London School Tropical Med., Royal Albert Dock 26.I.1910		2 ♀ sent to RML by P.A. Buxton (Rec'd 24.II.1940). An additional ♀ <u>I. hexagonus</u> presented to Dr. F.C. Bishopp is now in the RML collection (Bishopp 3231).
N	400	N	400 MISSING
	<u>Ixodes ricinus</u> ♂'s, ♀'s		
	Dog		
	Blackaddie, Sanquhar, Scotland		
	Rec'd 12.V.1908		
	Mr. R. Bramwell		
N	401	N	401 MISSING
	<u>Ixodes ricinus</u> ♂'s & ♀'s		
	Sheep, 24 hrs. after it died of "louping ill"		
	Blackaddie, Sanquhar, Scotland		
	Rec'd 12.V.1908		
	Mr. R. Bramwell		
	1 ♂, 1 ♀ to Royal College of Surgeons, London 20.XII.1909		

ORIGINAL DETERMINATION

N 402

Ixodes ricinus ♂'s & ♀'s
Ixodes hexagonus 1 ♀

Sheep

Blackaddie, Sanquhar, Scotland

Rec'd 12.V.1908

Mr. R. Bramwell

CURRENT STATUS

N 402a

RML 104917

402 MISSING

402a 1 ♀ Ixodes canisuga

Sheep

Blackaddie, Sanquhar
 (55.21 N, 03.55 W), Scotland

Rec'd 12.V.1908

Mr. R. Bramwell

There is no 402a listed in the
 catalogue.

Cited: Nuttall & Warburton
 (1911: 213), who spelled
 the locality Blackadie.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	403	N	403
		RML	104918
<u>Argas vespertilionis</u> 2 gorged Larvae		2 L <u>Argas vespertilionis</u>	
Bat		Bat	
Histon, Cambs.		Histon (52.15 N, 00.06 E), Cambs., England	
10.V.1908		10.V.1908	
		Nuttall et al. (1908: 39) incorrectly stated the collection date as 11.V.1903. Arthur (1963: 194) repeated this error.	
N	404	N	404
		RML	104919
<u>Ixodes hexagonus</u> ♀'s & N's		1 ♀, 12 N <u>Ixodes hexagonus</u>	
Stoat, <u>Mustela putorius</u>		<u>Mustela erminea</u>	
Holme, Peterborough		Holme (52.28 N, 00.14 W), Peterborough, England	
31.III.1908		31.III.1908	
Rec'd from Mr. W. Farren		Rec'd from Mr. W. Farren	
Rec'd 14.V.1908 1 ♀ to W. D. Hunter, USDA Washington		The ♀ <u>I. hexagonus</u> sent to W. D. Hunter was given Bishopp number 429 and is now in the RML collection	
		Cited: Nuttall & Warburton (1911: 182).	

ORIGINAL DETERMINATIONCURRENT STATUS

N 405

N 405

RML 66941

Ixodes ricinus ♂ & ♀

Cheviot sheep

Shelfhill Farm, Hawick
Scotland

Rec'd 22.V.1908

Rec'd from Mr. J. Murray

This collection is missing from the B.M.N.H. However, the 1 ♀ sent to the U.S.N.M., Washington, D.C., is now in the RML collection. Cited Nuttall & Warburton (1911: 152).

2 ♀ to Dr. E. Roubaud, Inst. Pasteur, Paris, 12.X.1922; 2 ♀ to Prof. J. Hjort, Christiania Univ., Norway, 12.X.1922; 2 ♀ to Dr. A. Watkins Pitchford, Army Vet. School, Thornhill, Aldershot, 12.X.1922; 2 ♀ to L.P.W. Renouf, Biol. Dept., Univ. College, Cork, Ireland, 12.X.1922; 2 ♀ to Dr. Wm. Parry Morgan, Publ. Hlth. Dept., Cardiff, Wales, 12.X.1922; 2 ♀ to J.E.M. Mellor, Malvern College, Malvern, 16.X.1922; 2 ♀ to Prof. A. Bettencourt, Inst. Camara Pestana, Lisbon, 7.XI.1922; 2 ♀ to Prof. E. Brumpt, Ecole de Medicine, Paris, 12.X.1922; 2 ♀ to I.C. Ross, Univ. Sydney, Australia; 2 ♀ to Prof. G. H. Carpenter, Royal College of Sciences, Dublin, 19.I.1910; 2 ♀ to Dr. G. S. Graham-Smith, Medical Schools, Cambridge, 19.I.1910; 2 ♀ to E. E. Green (F.E.S.) Gov. Entomologist, Ceylon, 19.I.1910; 2 ♀ to Dschunkowsky (Transcaucasus), 19.I.1910; 2 ♀ to Dr. Edmond Sergeant, Algeria, N. Africa, 19.IV.1910; 2 ♀ to Dr. H. de B. Aragão, Brazil, 23.I.1910; 1 ♂, 1 ♀ (in copulo) to Dr. H. de B. Aragao, Brazil, 23.I.1910; 2 ♀ to Prof. Dr. M. Miyajima, Tokio, Japan, 7.III.1912; 2 ♀ to Dr. G. L. Tuck, Tientsien, China, 17.II.1912; 2 ♀ to A. H. Cockangue, Wellington, N.Z.; some (sex/stage unknown) to Dr. Longin Navas, Zaragoza, Spain, 28.V.1913; 1 ♂, 1 ♀ to Dr. K. F. Meyer, U. Calif., Berkeley, 13.XI.1913; 2 ♀ to W. A. Pool, Indian Civil Vet. Dept., 12.X.1922; 2 ♀ to Prof. B. Galli-Valerio, Lausanne, Switzerland, 14.III.1912;

ORIGINAL DETERMINATIONCURRENT STATUS

405 (cont'd)

Some (sex/stage unknown) to Prof. O. Duboseq, Montpellier, France, 10.II. 1914; 1 ♀ to Prof. Dr. Dahl, Berlin Museum, VII.1914; 1 ♀ to Prof. Dr. S. Schenkling, Deutsches Entomol. Museum, VII.1914; 1 ♀ to Prof. Dr. R. Gestro, Museo Civico di Storia Nat. Genova, VII.1914; 1 ♀ to U.S.N.M., Washington; 1 ♂, 2 ♀ to F. C. Bishopp; 1 ♂, 2 ♀ to Prof. Dryer, Parasit. Dept., Oxford; 1 ♂, 1 ♀ to W. D. Hunter, U.S.D.A., Washington.

406-413. Ticks received from Dr. A. Theiler, Gov't Veterinary Bacteriologist, Dept. of Agriculture, Pretoria, Transvaal, S. Africa, 27.I.1908.

N

406

N

406

RML

104920

Hyalomma aegyptium eggsOne vial Hyalomma sp. eggs

Pretoria, Transvaal, S. Africa

Pretoria (25.45 S, 28.10 E), Transvaal, Republic of South Africa

Rec'd 27.I.1908

Received 27.I.1908

Received from Dr. A. Theiler

Received from Dr. A. Theiler

N

407

N

407

RML

104921

Rhipicephalus appendiculatus eggs1 vial Rhipicephalus appendiculatus eggs

Pretoria, Transvaal, S. Africa

Pretoria (25.45 S, 28.10 E), Transvaal, Republic of South Africa

Received 27.I.1908

Received 27.I.1908

Received from Dr. A. Theiler

Received from Dr. A. Theiler

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	408	N	408 MISSING
	<u>Rhipicephalus evertsi</u> eggs		
	Pretoria, Transvaal, S. Africa		
	Received 27.I.1908		
	Received from Dr. A. Theiler		
N	409	N	409
		RML	104922
	<u>Rhipicephalus evertsi</u> larvae		± 5000 L <u>Rhipicephalus evertsi</u>
	Pretoria, Transvaal, S. Africa		Pretoria (25.45 S, 28.10 E), Transvaal, Republic of South Africa
	Received 27.I.1908		Received 27.I.1908
	Received from Dr. A. Theiler		Received from Dr. A. Theiler
N	410	N	410 MISSING
	<u>Rhipicephalus evertsi</u> cast nymphal skins		
	Pretoria, Transvaal, S. Africa		
	Received 27.I.1908		
	Received From Dr. A. Theiler		
N	411	N	411
		RML	104923
	<u>Rhipicephalus evertsi</u> ♂'s and ♀'s issued from 410		3 ♂, 2 ♀ <u>Rhipicephalus evertsi</u>
	Pretoria, Transvaal, S. Africa		Pretoria (25.45 S, 28.10 E) Transvaal, Republic of South Africa
	Received 27.I.1908		Received 27.I.1908
	Received from Dr. A. Theiler		Received from Dr. A. Theiler

ORIGINAL DETERMINATIONCURRENT STATUS

N	412	N	412 MISSING
	<u>Boophilus decoloratus</u> ♂'s, ♀'s (gorged)		
	Pretoria, Transvaal, S. Africa		
	Received 27.I.1908		
	Received from Dr. A. Theiler		
N	413	N	413
		RML	104924
	<u>Boophilus decoloratus</u> larvae		+ 10,000 L <u>Boophilus decoloratus</u>
	Pretoria, Transvaal, S. Africa		Pretoria (25.45 S, 28.10 E), Transvaal, Republic of South Africa
	Received 27.I.1908		Received 27.I.1908
	Received from Dr. A. Theiler		Received from Dr. A. Theiler
	414-416. Ticks received from Professor J. R. Wallace, Auchenbaingee, Thornhill, Dumfriesshire, Scotland, collected 26.V.1908.		
N	414	N	414
		RML	104925
	<u>Ixodes canisuga</u> ♀'s		33 ♀ <u>Ixodes canisuga</u>
	Dog		Dog
	Auchenbaingee, Thornhill, Dumfriesshire, Scotland		Auchenbaingee, Thornhill (55.14 N, 3.46 W), Dumfriesshire, Scotland
	26.V.1908		26.V.1908
	Received from Prof. J. R. Wallace		Received from Prof. J. R. Wallace
	♀'s (number not stated) to Dr. S. Hadwen, British Columbia, Canada 10.X.1913		Cited: Nuttall and Warburton (1911: 213).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	415	N	415 MISSING
<u>Ixodes ricinus</u> ♂'s, ♀'s			
Lambs			
Auchenbaingee, Thornhill, Dumfriesshire, Scotland			
26.V.1908			
Received from Prof. J. R. Wallace			
N	416	N	416 MISSING
<u>Ixodes ricinus</u> ♂'s, ♀'s			
Cattle			
Auchenbaingee, Thornhill, Dumfriesshire, Scotland			
26.V.1908			
Received from Prof. J. R. Wallace			
1 ♂, 1 ♀ to Dr. de Blieck, Java, 22.I.1915			

ORIGINAL DESCRIPTIONCURRENT STATUS

N 417 a-e

N 417

RML 66940

Ixodes ricinus17 L Ixodes ricinus121 L Ixodes ricinus

(a) - cow, (b) - dead lamb,
 (c) - ewe with "lingering
 trembling", (d) - wool of sheep,
 (e) - sheep

Hedgehog (17 L)

Sheep (121 L)

Glenmaddie Farm
 Sanquhar, Scotland

Quick Laboratory, Cambridge
 (52.13 N, 00.08 E) England

(a) 26.V.1908, (b) 20.V.1908,
 (c) 26.V.1908, (d) 27.V.1908,
 (e) 27.V.1908

17.VIII.1909

Mr. R. Bramwell

1 engorged larva is in the RML
 collection

Evidently progeny of 417 a-e were
 reared at Cambridge but Nuttall
 did not so indicate in his catalogue.
 Cited: Nuttall and Warburton (1911:
 152).

ORIGINAL DETERMINATIONCURRENT STATUS

418-421. Ticks received from Dr. A. Theiler, Gov't Veterinary Bacteriologist,
Dept. of Agriculture, Pretoria, Transvaal, S. Africa, received
1.VI.1908.

N 418

N 418

RML 60593

Amblyomma hebraeum ♂'s and ♀'s

Pretoria, Transvaal, S. Africa

Received 1.VI.1908

Received from Dr. A. Theiler

1 ♂, 1 ♀ to Prof. Dryer, Parasit.
Dept., Oxford

1 ♂, 1 ♀ to W. D. Hunter, USDA,
Washington

This collection is missing from the
B.M. (N.H.). However, there are 1 ♂ ,
2 ♀ now in the RML collection that
had Bishopp number 423.

N 419

N 419 MISSING

Amblyomma hebraeum N's (gorged)

Pretoria, Transvaal, S. Africa

Received 1.VI.1908

Received from Dr. A. Theiler

N 420

N 420 MISSING

Amblyomma hebraeum N's (gorged)

Pretoria, Transvaal, S. Africa

Received 1.VI.1908

Received from Dr. A. Theiler

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	421	N	421
		RML	104926
	<u>Rhipicephalus appendiculatus</u> N's (gorged)		9 N <u>Rhipicephalus appendiculatus</u>
	Pretoria, Transvaal, S. Africa		Pretoria (25.45 S, 28.10 E), Transvaal, Republic of South Africa
	Received 1.VI.1908		Received 1.VI.1908
	Received from Dr. A. Theiler		Received from Dr. A. Theiler
N	422	N	422
		RML	104927
	<u>Ixodes canisuga</u>		1 ♀ <u>Ixodes canisuga</u>
	Dogs		Dogs
	Auchenbrack, Timron, Scotland		Auchenbrack, Tynron (55.13 N, 03.53 W), Scotland
	29.V.1908		29.V.1908
	Sent by J. McMonnies (shepherd)		Sent by J. McMonnies
			Cited: Nuttall and Warburton (1911: 213).
N	423	N	423 MISSING
	<u>Ixodes ricinus</u> ♀'s, N's and larvae		
	Sheep		
	Auchenbrack, Timron, Scotland		
	29.V.1908		
	Sent by J. McMonnies (shepherd)		

ORIGINAL DETERMINATIONCURRENT STATUS

424-434. Ticks received early in June 1908, from Dr. P. Hood, Senior Medical Officer, Bathurst, Colony of Gambia.

N	424	N	424
		RML	104928
	<u>Haemaphysalis hoodi</u> TYPE		15 ♂, 34 ♀ <u>Haemaphysalis hoodi</u> Lectotype and paralectotypes
	Fowls		Fowls
	Bathurst, Gambia		Banjul (13.27 N, 16.35 W), Gambia
	12.V.1908		12.V.1908
	Dr. P. Hood		Dr. P. Hood
	1 ♂, 1 ♀ to Dr. L. O. Howard USDA 21.V.1909		The specimens sent to Dr. Howard are now in RML. Warburton and Nuttall (1909: 63), original description. Lectotype designated: Keirans & Brewster (1981: 160).
N	425a, b	N	425 MISSING
	(a) <u>Hyalomma aegyptium</u> 3 ♂'s, 2 ♀'s (b) <u>Amblyomma variegatum</u> 4 ♂'s		
	Cow		
	Bathurst, Gambia		
	18.V.1908		
	Dr. P. Hood		
N	426	N	426
		RML	104929
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		22 ♂, 22 ♀, 9 N <u>Rhipicephalus sanguineus</u>
	Brown and white dog		Brown and white dog
	Bathurst, Gambia		Banjul (13.27 N, 16.35 W), Gambia
	18.V.1908		18.V.1908
	Dr. P. Hood		Dr. P. Hood

ORIGINAL DETERMINATIONCURRENT STATUS

N	427a-e	N	427b, c
		RML	104930
	(a) <u>Amblyomma variegatum</u> ♂'s, 2 ♀'s		(b) 8 ♂, 3 ♀ <u>Hyalomma truncatum</u>
	(b) <u>Hyalomma aegyptium</u> 5 ♂, 1 ♀		(c) 1 ♂ <u>Rhipicephalus senegalensis</u>
	(c) <u>Rhipicephalus simus</u> 1 ♂		(a), (d), (e) MISSING
	(d) <u>Boophilus australis</u> ? 2 ♀ (injured)		
	(e) <u>Amblyomma variegatum</u> N		
	Brown cow		Brown cow
	Bathurst, Gambia		Banjul (13.27 N, 16.35 W), Gambia
	18.V.1908		18.V.1908
	Dr. P. Hood		Dr. P. Hood
			427a, d, e - MISSING
N	428	N	428
		RML	104931
	<u>Boophilus australis</u>		6 ♀ <u>Boophilus geigyi</u>
	Brown cow		Brown cow
	Bathurst, Gambia		Banjul (13.27 N, 16.35 W), Gambia
	13.V.1908		13.V.1908
	Dr. P. Hood		Dr. P. Hood
N	429	N	429
		RML	115866
	<u>Amblyomma variegatum</u> 11 ♂'s		2 ♂ <u>Amblyomma variegatum</u>
	Sheep		Sheep
	Bathurst, Gambia		Banjul (13.27 N, 16.35 W), Gambia
	12.V.1908		12.V.1908
	Dr. P. Hood		Dr. P. Hood
	1 ♂ to W. D. Hunter, USDA, Washington		

ORIGINAL DETERMINATIONCURRENT STATUS

N 430

N 430 MISSING

Amblyomma variegatum 1 N
(gorged)

Donkey

Bathurst, Gambia

18.V.1908

Dr. P. Hood

N 431

N 431

RML 104932

Rhipicephalus sanguineus ♂'s, ♀'s10 ♂, 11 ♀, 1 N Rhipicephalus sanguineus

Brown cow

Brown cow

Bathurst, Gambia

Banjul (13.27 N, 16.35 W), Gambia

12.V.1908

12.V.1908

Dr. P. Hood

Dr. P. Hood

N 432

N 432 MISSING

Boophilus decoloratus ♂, ♀

Mandingo man

Bathurst, Gambia

12.V.1908

Dr. P. Hood

ORIGINAL DETERMINATIONCURRENT STATUS

N 433

N 433 MISSING

Amblyomma variegatum ♀

White pig

Bathurst, Gambia

12.V.1908

Dr. P. Hood

1 ♂, 1 ♀ to Prof. Kellogg,
Stanford Univ.

N 434

N 434 MISSING

Rhipicephalus sanguineus ♂'s, ♀'s

White dog

Bathurst, Gambia

12.V.1908

Dr. P. Hood

ORIGINAL DETERMINATIONCURRENT STATUS

435-436. Ticks received 13.VI.1908 from Dr. K. S. Wise of the Public Hospital, Georgetown, British Guiana, who delivered them in person.

N 435

N 435

RML 104933

Boophilus australis

72 ♀ Boophilus microplus

Cows

Cows

Along British Guiana coast

Along Guyana coast

Received 13.VI.1908

Received 13.VI.1908

Dr. K. S. Wise

Dr. K. S. Wise

1 ♂, 1 ♀ to A. D. Imms, Allahabad Univ., India; 1 ♂, 1 ♀ to Royal College of Surgeons, London, 20.XII.1909; 1 ♂, ♀'s to Prof. Kellogg, Stanford Univ.

N 436

N 436

RML 104934

Rhipicephalus sanguineus ♂, ♀'s
larvae

2 ♂, 3 ♀, many larvae & eggs
Rhipicephalus sanguineus

Dog suffering from piroplasmosis

Dog suffering from piroplasmosis

British Guiana

Georgetown (06.48 N, 58.10 W)
Guyana

Received 13.VI.1908

Received 13.VI.1908

Dr. K. S. Wise

Dr. K. S. Wise

(will send notes)

Georgetown locality on vial label

ORIGINAL DETERMINATIONCURRENT STATUS

N 437,a, b

N 437a, b

RML 104935

(437) Amblyomma variegatum ♂'s, ♀'s
 (a) Boophilus australis 1 ♀
 (b) Rhipicephalus appendiculatus 1 ♂

(437) MISSING
 (a) 1 ♀ Boophilus microplus
 (b) 1 ♂ Rhipicephalus appendiculatus

Goats and cattle

Goats and cattle

Mauritius

Mauritius

Sent 27.VI.1908

Sent 27.VI.1908

Sent by M. de Charmoy, director of
 Museum, Port Louis

Sent by M. de Charmoy, Director of
 Museum, Port Louis

438-440. Ticks received from Dr. C. M. Wenyon, London School of Tropical
 Medicine, London E.C., 25.VI.1908.

N 438

N 438

RML 104936

Aponomma laeve 2 ♂, 2 ♀2 ♂, 2 ♀ Aponomma latumYellow snake, Psammophis sibilansPsammophis sibilans

Barboy, White Nile, Sudan

Barboy, White Nile (15.38 N, 32.31 E),
Sudan

30.XI.1907

30.XI.1907

Dr. C. M. Wenyon

Dr. C. M. Wenyon

Host common name is the hissing sand
 snake

Charles Morley Wenyon (1878-1948)
 graduate of Univ. Leeds, University
 College, London, and Guy's Hospital.
 Protozoologist at London School of
 Tropical Medicine and later Research
 Director of the Wellcome Bureau of
 Scientific Research. Perhaps the
 greatest protozoologist of the century
 (Garnham, 1979).

ORIGINAL DETERMINATIONCURRENT STATUS

N 439

N 439

RML 104937

Aponomma laeve 1 ♂, 1 ♀1 ♂, 1 ♀ Aponomma latumSnake, Psammophis sibilansPsammophis sibilans

River Sobat, Sudan

Sobat River (09.22 N, 31.33 E), Sudan

3.VII.1907

3.VII.1907

Dr. C. M. Wenyon

Dr. C. M. Wenyon

Vial label incorrectly states the
locality as River Sobat, Egypt.

N 440

N 440

RML 104938

Argas persicus larvae (gorged)16 L Argas persicus

Fowls

Fowls

Meshra el Reh, Sudan

Mashra ar Raqq (08.25 N, 29.16 E),
Sudan

25.II.1908

25.II.1908

Received from Dr. C. M. Wenyon

Received from Dr. C. M. Wenyon

N 441

N 441

RML 104939

Argas persicus all stages4 ♂, 6 N, 3 L Argas persicus

Cape Colony S. Africa

Cape Colony, Republic of South Africa

Sent 29.VI.1908

Sent 29.VI.1908

Sent by Mr. C. P. Lounsbury

Sent by Mr. C. P. Lounsbury

ORIGINAL DETERMINATIONCURRENT STATUS

N	442a-c	N	442a, b
		RML	104940
	(a) <u>Hyalomma aegyptium</u> larvae (gorged)		(a) 6 L <u>Amblyomma</u> sp.
	(b) <u>Rhipicephalus sanguineus</u>		(b) 1 ♂, 2 ♀ <u>Amblyomma</u> sp.
	(c) <u>Amblyomma lepidum</u> ♂, ♀		(c) MISSING
	Young ostrich		<u>Struthio camelus</u>
	White Nile, Sudan		White Nile (15.38 N, 32.31 E), Sudan
			25.VI.1908
			Dr. C. M. Wenyon
	(c) on slides, L. E. Robinson re-det 26.III.1919		Date and collector information taken from vial label
N	443	N	443
		RML	104941
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		13 ♂, 9 ♀ <u>Rhipicephalus sanguineus</u>
	Probably Lagos, S. Nigeria (W. Africa)		Probably Lagos (06.27 N, 03.23 E), Nigeria
	Received 30.VI.1908		Received 30.VI.1908
	Received from Dr. H. Strachan, Principal Medical Officer		Received from Dr. H. Strachan, Principal Medical Officer
N	444	N	444 MISSING
	<u>Amblyomma lepidum</u> ♂, ♀		
	(Wenyon coll "438")		
	Slides L. E. Robinson re-determined 26.III.1919. Found with <u>Hyal.</u> <u>aegyptium</u>		

ORIGINAL DETERMINATIONCURRENT STATUS

N 445
Rhipicephalus sanguineus ♂'s, ♀'s
 Dogs
 Allahabad, India
 Rec'd 10.III.1908
 Rec'd from Professor A. D. Imms

N 445 MISSING

N 446
Ixodes hexagonus ♀'s, N's
 Hedgehog
 Madingly Hall, Cambs.
 16.VII.1908
 Mr. W. A. Harding

N 446
 RML 104942
 2 ♀, 6 N Ixodes hexagonus
Erinaceus europaeus

Madingley (52.13 N, 00.03 E),
 Cambs., England

16.VII.1908

Mr. W. A. Harding

Cited: Nuttall & Warburton (1911: 182).

N 447
Ixodes canisuga ♀'s and N's
 Dog
 Auchenbrack, Tynron, Scotland
 Mr. J. McMonnies

N 447
 RML 56920 and RML 66149

1 ♀ to Prof. Dr. Dahl, Berlin
 Museum VII.1914, 1 ♀ to Prof. Dr.
 Schenkling, Deutsches Entomol.
 Mus. VII.1914; 1 ♀ to Prof. Dr.
 Gestro, Museu Civico di Storia
 Nat., Genova VII.1914.

The Nuttall collection contains no
 specimens of I. canisuga with this
 Nuttall number. However, the BM(NH)
 collection contains 1 N (13.2.12.7-8).
 There is also 1 N (RML 56920) in the
 RML collection from the Bishopp
 collection (Bishopp 3239) and 1 N
 (RML 66149) from the U.S.N.M. collection.
 Cited and figured: Nuttall & Warburton
 (1911: 212, 213).

ORIGINAL DETERMINATIONCURRENT STATUS

N 448

N 448

RML 104943

Rhipicephalus simus larvae92 L Rhipicephalus simus

Pretoria, Transvaal, S. Africa

Raised in Cambridge

Received 30.III.1908

Raised in 1908

Received from Dr. A. Theiler

Received from Dr. A. Theiler

Larvae in 2 vials
1-14 L; 2-78 L

N 449

N 449 MISSING

Rhipicephalus appendiculatus N's
(gorged)

Pretoria, S. Africa

Sent 11.V.1908

Sent by Dr. A. Theiler

ORIGINAL DETERMINATIONCURRENT STATUS

N 450

Amblyomma hebraeum 1 ♀

Pretoria, S. Africa

Received 11.V.1908

Received from Dr. A. Theiler

N 451

Rhipicephalus pulchellus 1 ♂, 1 ♀

British East Africa

18.VII.1908

Sent by Mr. F. V. Theobald

N 450 MISSING

N 451

RML 104944

1 ♂, 1 ♀ Rhipicephalus pulchellus

Kenya

18.VII.1908

Sent by Mr. F. V. Theobald

Frederick Vincent Theobald (1868-1930)
 Professor of economic zoology at the
 South-Eastern Agricultural College, Wye,
 Kent. Produced a famous monograph on
 the Culicidae for Trustees of the
 British Museum (Nat. Hist.) that was not
 well received. He later wrote a mono-
 graph on British Aphididae.

ORIGINAL DETERMINATIONCURRENT STATUS

N 452

N 452

RML 104945

Boophilus australis ♂'s, ♀'s19 ♀ Boophilus microplus

Cattle

Cattle

7 miles from Simla, India

7 miles from Simla (31.06 N, 77.10 E),
India

Sent 23.VI.1908

Sent 23.VI.1908

Sent by Mr. Wm. Smith, Gov't
Dairy ExpertSent by Mr. Wm. Smith, Gov't
Dairy Expert

N 453

N 453

RML 104946

Argas vespertilionis larvae5 L Argas vespertilionisVesperugo pipistrellusPipistrellus pipistrellus

Church at Histon, Cambs

Church at Histon (52.15 N, 00.06 E),
Cambs, England

30.VII.1908

30.VII.1908

Mr. W. A. Harding

Mr. W. A. Harding

[6 larvae mounted in balsam on
2 slides]

Slides missing

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	454	N	454
		RML	104947
	<u>Ixodes putus</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Ixodes uriae</u>
			Gulls
	Bempton cliffs, ledges frequented by guillemots		Bempton cliffs (54.08 N, 00.10 W) England
	Received 5.VIII.1908		Received 5.VII.1908
	Received from Oxley Grabham, M.A. The Museum, York		Received from Oxley Grabham, M.A. The Museum, York
	(Says jackdaws feed on them "with avidity")		Host taken from vial label Cited: Nuttall and Warburton (1911: 260).
N	455	N	455 MISSING
	<u>Ornithodoros moubata</u> 1 ♀		
	Received 10.VIII.1908		
	Received from A. B. Cook, MA, Cambridge		
	A. B. Cook received the tick from his brother, a medical missionary		
N	456	N	456
		RML	104948
	<u>Ixodes hexagonus</u> ♀		1 ♀ <u>Ixodes hexagonus</u>
	<u>Lutra vulgaris</u>		<u>Lutra lutra</u>
	Histon, Cambs., England		Histon (52.15 N, 00.06 E), Cambs., England
	1908		1908
	W. A. Harding		W. A. Harding
			Cited: Nuttall & Warburton (1911: 182).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	457	N	457
		RML	104949
<u>Amblyomma cajennense</u> 1 ♀, 1 N & larvae		1♀, 2 N <u>Amblyomma cajennense</u>	
Grass on mountain at Jamaica		Grass on mountain at Jamaica	
1903		1903	
Mr. W. A. Harding		Mr. W. A. Harding	
		Cited: Robinson (1926: 53).	
N	458a-c	N	458b
		RML	104950
(a) <u>Rhipicephalus evertsi</u> 2 ♀'s		(a) MISSING	
(b) <u>Rhipicephalus appendiculatus</u> 1 ♂		(b) 1♂ <u>Rhipicephalus supertritus</u>	
(c) <u>Boophilus decoloratus</u> 1♂, ♀'s		(c) MISSING	
Cattle		Cattle	
Rhodesia, S. Africa		Zimbabwe	
Sent 10.VII.1908		Sent 10.VII.1908	
Sent by Prof. Wallace		Sent by Prof. Wallace	
N	459	N	459
		RML	104951
<u>Ixodes putus</u> 1♀		1♀ <u>Ixodes uriae</u>	
Sea gull		Sea gull	
Handa Island, Sutherland, Scotland		Handa Island (58.22 N, 05.12 W), Sutherland, Scotland	
Rec'd VIII.1908		Rec'd VIII.1908	
Rec'd from Dr. W.L.H. Duckworth		Rec'd from Dr. W.L.H. Duckworth	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	460	N	460
		RML	104952
	<u>Amblyomma dissimile</u> ♂'s		3 ♂ <u>Amblyomma cruciferum</u>
	Iguana		Iguana
	Received VIII.1908		Received VIII.1908
	Received from Dr. Duckworth, Cambridge		Received from Dr. Duckworth, Cambridge
	Iguana at Zoological Gardens, London?		Two pieces of skin in the vial with 1 ♂ still attached
N	461a, b	N	461a, b
		RML	104953
	(a) <u>Dermacentor nitens</u> ♂'s, ♀'s		(a) 4 ♂, 62 ♀ <u>Anocentor nitens</u>
	(b) <u>Boophilus</u> spec. incert ♀'s		(b) 26 ♀ <u>Boophilus microplus</u>
	Horses		Horses
	Montserrat, W. Indies		Montserrat (16.45 N, 62.12 W), W. Indies
	30.VI.1908		30.VII.1908
	Dr. W. G. Heath		
	461a sent to the following:		Date taken from vial label
	1 ♂, 1 ♀ to Launcelot Harrison Australia 9.V.1910		
	1 ♂, 1 ♀ to Prof. M. Jesus Maynar, Zaragoza, Spain 10.V.1910		
	1 ♂, 1 ♀ to Prof. Poulton, Oxford, 26.V.1919		
	1 ♂, 1 ♀ to E. Hindle, Cambridge, 24.IX.1919		
	1 ♂, 1 ♀ to Major Lothian, School Hygiene, Blackpool 25.IX.1919		
	1 ♂, 1 ♀ to Major J.E.M. Boyd, Cambridge 20.XII.1919		
	1 ♂, 1 ♀ to Dr. J. Gordon Thompson London School Trop. Med. 8.I.1920		
	1 ♂, 1 ♀ to Dr. R. W. Hegner, Johns Hopkins, Baltimore 8.III.1920		
	1 ♂, 1 ♀ to Dr. R. J. Tillyard, Nelson, N.Z. VI.1920		

1 ♂, 1 ♀ to Prof. Jules Bordet,
Bruxelles, Belgium 30.VI.1920
1 ♂, 2 ♀ to E. T. Bordman Univ.
Florida, Gainesville 30.V.1929
461b [C. W. det. 1918]

ORIGINAL DETERMINATION

CURRENT STATUS

N	462	N	462 MISSING
	<u>Boophilus australis</u> ♂'s, ♀'s		
	Cattle		
	Montserrat, W. Indies		
	30.VI.1908		
	Dr. W. G. Heath		
N	463	N	463
		RML	104954
	<u>Rhipicephalus sanguineus</u> 1 ♂		1 ♂ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Montserrat, W. Indies		Montserrat (16.45 N, 62.12 W), W. Indies
	12.VI.1908		12.VI.1908
	Dr. W. G. Heath		Dr. W. G. Heath
N	464	N	464
		RML	105622
	<u>Rhipicephalus sanguineus</u>		4 ♂, 43 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs, horses and cat		Dogs, horses and cat
	Ebute Metta, S. Nigeria		Ebute Metta (06.29 N, 03.23 E), Nigeria
	30.VI.1908		30.VI.1908
	W. F. Macfarlane		W. F. Macfarlane
			1 ♂ teratological

ORIGINAL DETERMINATIONCURRENT STATUS

N	465	N	465
	<u>Amblyomma variegatum</u>	RML	57368
	Cattle		2 ♀ <u>Amblyomma variegatum</u>
	Jaba, S. Nigeria		Cattle
	30.VI.1908		Jaba (07.52 N, 11.06 E) or (10.12 N, 13.00 E), Nigeria
	W. F. Macfarlane		30.VI.1908
	The ♀ to W. D. Hunter, USDA, Washington		W. F. Macfarlane
			The ♀ sent to Hunter was given Bishopp number 424 and is now in the RML collection.
N	466	N	466
	<u>Aponomma</u> sp. ? N's	RML	104955
	Ear of <u>Ptilocerus lowii</u>		3 N <u>Dermacentor</u> sp.
	Sarawak, Borneo		Ear of <u>Ptilocerus lowii</u>
	Received IX.1908		Sarawak, Malaysia
	J. Hewitt		Received IX.1908
	Sent by Dr. A. R. Wellington		J. Hewitt
N	467, a	N	467
	(467) <u>Hyalomma aegyptium</u>	RML	104956
	(a) <u>Rhipicephalus evertsi</u>		(467) 6 ♂, 3 ♀ <u>Hyalomma rufipes</u> 1 ♂ <u>Boophilus decoloratus</u>
	Cows		(a) MISSING
	Rhodesia		Cows
	23.VII.1908		Zimbabwe
	Professor Robert Wallace		23.VII.1908
			Professor Robert Wallace

ORIGINAL DETERMINATIONCURRENT STATUS

N 468

N 468

RML 104957

Boophilus decoloratus2 ♂, 13 ♀ Boophilus decoloratus

Sheep dead of heartwater

Sheep dead of heartwater

Rhodesia

Zimbabwe

25.VIII.1908

25.VIII.1908

Professor R. Wallace

Professor R. Wallace

Also many eggs

N 469

N 469 MISSING

Argas persicus

(a) larvae attached to skin of chicken; (b) nymph; (c) adults which convey spirochaetosis

French Sudan

Dr. G. Borrel of the Pasteur
Institute, ParisSent at the instance of Dr. E.
Marchoux. He sends 3 tubes from
French Sudan (all returned 25.IX.1908)

ORIGINAL DETERMINATIONCURRENT STATUS

N 470

N 470

RML 104958

Aponomma gervaisi var. lucasi
♂'s, ♀'s1 ♂ Aponomma gervaisi
4 ♂, 25 ♀ Aponomma varanensisRock snake, Python molurusPython molurusProbably Zoological Gardens
Calcutta, IndiaProbably Zoological Gardens
Calcutta, India

1908

1908

Sent by Mr. Annandale

Sent by Mr. Annandale

[2 ♂, 2 ♀ mounted in cells with
other Aponomma spp.]
Determined by C. Warburton, 1908
[Det. corrected by C.W. 29.III.1915]Slides missing
Nelson Annandale (1876-1924) sent
to India 1904 as Deputy Superintendent
of Natural History Section of the
Indian Museum; appointed Superintendent
1907. In 1916 founded Zoological Survey
of India.

N 471

N 471

RML 104959

Aponomma gervaisi var. lucasi
♂'s, ♀'s, N's, L's25 ♂, 11 ♀, 31 N, 4 L Aponomma
varanensisCobra, Naia tripudiansNaja najaProbably Zoological Garden,
Calcutta, IndiaProbably Zoological Garden,
Calcutta, India

1908

1908

Sent by Mr. Annandale

Gift of Dr. N. Annandale

Determined by C. Warburton 1908.
Det. corrected by C.W. 29.III.1915
2 ♂, 2 ♀ to C. Strickland, Malaya
1 ♂, 1 ♀ to Prof. Dryer, Parasit.
Dept., Oxford
1 ♂, 1 ♀ to W. D. Hunter, USDA,
Washington
1 ♂, 1 ♀ to A. D. Imms, Allahabad
Univ., India
Some (sex/stage not stated) to
Dr. de Blieck, Java, 22.I.1915Cited: Santos Dias (1958: 518)
who gave tick numbers 26 ♂, 10 ♀,
4 N
The 1♂, 1♀ sent to W. D. Hunter are
now in the RML collection (Bishopp
#425).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	472	N	472
		RML	104960
	<u>Aponomma gervaisi</u>		5 ♂, 2 ♀, 6 N <u>Aponomma varanensis</u>
	<u>Bungarus fasciatus</u>		<u>Bungarus fasciatus</u>
	Probably Zoological Gardens, Calcutta, India		Probably Zoological Gardens, Calcutta, India
	1908		1908
	Sent by Mr. Annandale		Sent by Mr. Annandale
N	473 a		473 MISSING
	(473) <u>Boophilus decoloratus</u>		
	(a) <u>Rhipicephalus evertsi</u>		
	Sheep dying of Heartwater		
	Old "Umtali" Rhodesia, S. Africa		
	Sent 28.VIII.1908		
	Sent by Professor R. Wallace		
N	474	N	474 MISSING
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s		
	Cape Colony, S. Africa		
	1908		
	Received from Mr. C. P. Lounsbury		

ORIGINAL DETERMINATIONCURRENT STATUS

N	475	N	475
		RML	104961
	<u>Ornithodoros moubata</u>		9 ♂, 4 ♀, 3 N <u>Ornithodoros moubata</u>
	Nairobi, Uganda, British East Africa		Nairobi (01.17 S, 36.49 E), Kenya
	3.X.1910		3.X.1910
	Dr. P. H. Ross		Dr. P. H. Ross
	Supposed to be infected with <u>Spirochaeta duttoni</u> . [Raised in Cambridge for several generations. Slides, balsam mounts, moults, etc.]		Slides missing. Also in this collection are 8 cast skins and eggs.
N	476	N	476
		RML	104962
	<u>Amblyomma variegatum</u> ♀ (gorged)		1 ♀ <u>Amblyomma variegatum</u>
	Cow		Cow
	Nyasaland, B. E. Africa		Malawi
	Sent 15.X.1908		Sent 15.X.1908
	Sent by Dr. J.E.S. Old		Sent by Dr. J.E.S. Old
N	477	N	477
		RML	104963
	<u>Boophilus decoloratus</u>		11 ♀ <u>Boophilus decoloratus</u>
	Nyasaland, B. E. Africa		Malawi
	Sent 15.X.1908		Sent 15.X.1908
	Sent by Dr. J.E.S. Old		Sent by Dr. J.E.S. Old

ORIGINAL DETERMINATIONCURRENT STATUS

N	478	N	478
		RML	104964
	<u>Rhipicephalus capensis</u> ♂, ♀'s		5 ♂, 6 ♀ <u>Rhipicephalus compositus</u>
	"Big game"		"Big game"
	Nyasaland, B. E. Africa		Malawi
	Sent 15.X.1908		Sent 15.X.1908
	Sent by Dr. J.E.S. Old		Sent by Dr. J.E.S. Old
N	479	N	479
		RML	104965
	<u>Rhipicephalus sanguineus</u>		4 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Bussorah		Al Basrah (30.30 N, 47.47 E), Iraq
	IX.1907		IX.1907
	Sent by Dr. Nattan-Larrier of Paris X.1908		Sent by Dr. Nattan-Larrier of Paris X.1908
N	480	N	480 MISSING
	<u>Argas persicus</u> larvae		
	Fowls, ducks, and turkeys		
	Bouchir		[Bouchir is probably Buchir (27.03 N, 53.35 E), Iran]
	III.1907		
	Sent by Dr. Nattan-Larrier of Paris X.1908		

ORIGINAL DETERMINATIONCURRENT STATUS

N 481

N 481

RML 104966

Hyalomma aegyptium ♂'s, ♀'s2 ♂, 4 ♀ Hyalomma dromedarii

Camels

Camels

Western Australia, imported from
IndiaWestern Australia, imported from
India

Sent 25.IX.1908

Sent 25.IX.1908

Sent by Dr. J. Burton Cleland,
Gov't Bacteriologist, Dept. of
State Medicine and Public Health,
Central Board of Health, Perth,
West AustraliaSent by Dr. J. Burton Cleland,
Gov't Bacteriologist, Dept. of
State Medicine and Public Health,
Central Board of Health, Perth,
West Australia"Shortly after the camels landed
these ticks propagated themselves
and were distributed amongst horses
and cattle causing a good deal of
irritation around their attachment".
Sent with camel-lice (See louse-
list No. 21) = Haematopinus cameliSir John Burton Cleland (1878-1971)
Professor of Pathology, University
of Adelaide 1920-1948; president
Royal Society of South Australia,
1928 and 1941; knighted 1964.

N 482

N 482

RML 104967

Amblyomma helvolum 3 ♂, N3 ♂ Amblyomma helvolum

Iguana

Iguana

St. John's Island, Singapore Straits
SettlementSakijang Bendera, Pulau (01.13 N,
103.51 E), Singapore

Received 6.X.1908

Received 6.X.1908

Received from Dr. A. R. Wellington

Received from Dr. A. R. Wellington

Cited: Robinson (1926: 219).

ORIGINAL DETERMINATIONCURRENT STATUS

483-492. Ticks received from Dr. J. C. Koningsberger X.1908, Zoological Museum, Buitenzorg, Java, who wrote, 22.VIII.1908, asking that the determinations be sent him and what specimens we could spare.

N 483

N 483

RML 104968

Amblyomma sublaeve22 ♂, 2 ♀ Amblyomma javanenseManis javanicaManis javanica

Java

Java, Indonesia

Received X.1908

Received X.1908

Received from Dr. J. C. Koningsberger

Received from Dr. J. C. Koningsberger

Dr. Jacob Christian Koningsberger (1868-1951) former Minister of the Colonies, Chairman of Parliament in the Netherlands Indies, former director of the National Botanical Gardens and of the Zoological Museum and Laboratory of Buitenzorg.

N 484

N 484

RML 104969

Aponomma gervaisi 2 ♀2 ♀ Aponomma varanensisPython reticulatusPython reticulatus

Java

Java, Indonesia

Received X.1908

Received X.1908

Received from Dr. J. C. Koningsberger

Received from Dr. J. C. Koningsberger

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	485	N	485 MISSING
	<u>Rhipicephalus sanguineus</u>		
	Java		
	Received X.1908		
	Received from Dr. J. C. Koningsberger		
N	486	N	486
		RML	104970
	<u>Amblyomma helvolum</u> 2. ♀		2. ♀ <u>Amblyomma helvolum</u>
	<u>Coluber onicephalus</u>		<u>Coluber onicephalus</u> (name not verified). Possibly <u>Gonyosoma oxycephalum</u> .
	Boie, Java		Boie, Java (locality not verified)
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger
			Cited: Robinson (1926: 219).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	487	N	487
		RML	104971
<u>Aponomma exornatum</u>		31 ♂, 1 ♀, 10 N, 2 L <u>Aponomma varanensis</u>	
<u>Python reticulatus</u>		<u>Python reticulatus</u>	
Java		Java, Indonesia	
Received X.1908		Received X.1908	
Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger	
1 ♂ to Dr. J.E.M. Boyd, Cambridge, 20.XII.1919; 1 ♂ to Dr. J. Gordon Thompson, London School of Tropical Medicine 8.I.1920; 1 ♂ to Dr. R. W. Hegner, Johns Hopkins, Baltimore 8.III.1920; 1 ♂ to Dr. R. J. Tillyard, Nelson, N.Z. VI.1920; 1 ♂ to Prof. Jules Bordet, Bruxelles, Belgium 30.VI.1920			
N	488	N	488
		RML	104972
<u>Rhipicephalus sanguineus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>	
<u>Canis familiaris</u>		<u>Canis familiaris</u>	
Java		Java, Indonesia	
Received X.1908		Received X.1908	
Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger	

ORIGINAL DETERMINATIONCURRENT STATUS

N	489	N	489
		RML	104973
	<u>Amblyomma prolongatum</u>		11 ♂ <u>Amblyomma testudinarium</u>
	<u>Bos bubalus</u>		<u>Bubalus bubalis</u>
	Java		Java, Indonesia
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger
			Cited: Robinson (1926: 257).
N	490	N	490
		RML	104974
	<u>Amblyomma helvolum</u>		4 ♂, 1 ♀ <u>Amblyomma helvolum</u>
	<u>Ptyas (Zamenis) korros</u>		<u>Ptyas korros</u>
	Java		Java, Indonesia
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger
			Cited: Robinson (1926: 219).
N	491	N	491
		RML	104975
	<u>Amblyomma helvolum</u>		1 ♂ <u>Amblyomma helvolum</u>
	<u>Dipsas dendrophila</u>		<u>Boiga dendrophila</u>
	Java		Java, Indonesia
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger

ORIGINAL DETERMINATIONCURRENT STATUS

N 492

Amblyomma helvolum ♂'s, ♀'s

Java

Received X.1908

Received from Dr. J. C. Koningsberger

N 492

RML 104976

7 ♂, 1 ♀ Amblyomma helvolum

Java, Indonesia

Received X.1908

Received from J. C. Koningsberger

N 493

Aponomma exornatum

Naja sputatrix

Java

Received X.1908

Received from Dr. J. C. Koningsberger

N 493

RML 104977

2 ♂, 3 N Aponomma varanensis

Naja naja sputatrix

Java, Indonesia

Received X.1908

Received from Dr. J. C. Koningsberger

N 494, a

(494) Aponomma exornatum
(a) Amblyomma helvolum

Varanus salvator

Java

Received X.1908

Received from Dr. J. C. Koningsberger

N 494

RML 104978

(494) 2 ♂ Aponomma varanensis
(a) 3 ♂, 1 ♀ Amblyomma helvolum

Varanus salvator

Java, Indonesia

Received X.1908

Received from Dr. J. C. Koningsberger

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	495a-d	N	495a-d
		RML	104979
(a) <u>Amblyomma testudinarium</u>		(a) 5 ♂ <u>Amblyomma testudinarium</u>	
(b) <u>Rhipicephalus haemaphysaloides</u>		(b) 2 ♂, 2 ♀ <u>Rhipicephalus pilans</u>	
(c) <u>Haemaphysalis wellingtoni</u>		(c) 4 ♀ <u>Haemaphysalis wellingtoni</u>	
(d) <u>Boophilus australis</u>		(d) 18 ♀ <u>Boophilus microplus</u>	
<u>Bos indicus</u> and <u>Bos bubalus</u>		<u>Bos indicus</u> and <u>Bubalus bubalis</u>	
(a) Palembang, Sumatra		(a) Palembang (02.55 S, 104.45 E), Sumatra, Indonesia	
(b-d) Java		(b-d) Java, Indonesia	
Received X.1908		Received X.1908	
Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger	
(a) 1 ♀ to C. Strickland, Malaya		495a Cited: Robinson (1926: 257)	
(c) 1 ♀ to C. Strickland, Malaya		495c Cited: Nuttall and Warburton (1915: 481) who gave the locality as Palembang, Sumatra	
N	496a-c	N	496a-c
		RML	104980
(a) <u>Rhipicephalus haemaphysaloides</u> ♀'s		(a) 1 ♂, 4 ♀ <u>Rhipicephalus pilans</u>	
(b) <u>Haemaphysalis papuana</u>		(b) 1 ♂ <u>Haemaphysalis nadchatrami</u>	
(c) <u>Haemaphysalis koningsbergeri</u> (type)		(c) 1 ♂, 2 ♀ <u>Haemaphysalis</u> <u>koningsbergeri</u> Lectotype and paralectotypes.	
<u>Felis pardus</u>		<u>Panthera pardus</u>	
Java		Java, Indonesia	
Received X.1908		Received X.1908	
Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger	
		Warburton and Nuttall (1909: 65), original description of <u>H.</u> <u>koningsbergeri</u> . The vulva of 1 ♀ of <u>H. koningsbergeri</u> has been removed and is on slide. Lectotype designated: Keirans and Brewster (1981: 162).	

ORIGINAL DETERMINATIONCURRENT STATUS

N	497, a, b	N	497, b
		RML	104981
	(497) <u>Rhipicephalus capensis</u> var. <u>compositus</u>		(497) 3 ♂, 3 ♀ <u>Rhipicephalus compositus</u>
	(a) <u>Rhipicephalus sanguineus</u>		(a) MISSING
	(b) <u>Boophilus decoloratus</u>		(b) 1 ♀ <u>Boophilus decoloratus</u>
	Sheep and buffalo		Sheep and buffalo
	Ruo District, Nyasaland		Ruo Basin (15.54 S, 35.39 E), Malawi
	1906, Received 10.XI.1908		1906, Received 10.XI.1908
	Received from Dr. J.E.S. Old		Received from Dr. J.E.S. Old
N	498	N	498
		RML	104982
	<u>Rhipicephalus appendiculatus</u> (small)		10 ♂, 14 ♀ <u>Rhipicephalus kochi</u>
	Scabby goat		Scabby goat
	Ruo District, Nyasaland		Ruo Basin (15.54 S, 35.39 E), Malawi
	Received 10.XI.1908		Received 10.XI.1908
	Received from Dr. J.E.S. Old		Received from Dr. J.E.S. Old
			The back of the vial label bears the word "cotypes". The determination on the obverse is <u>R. neavei</u> although the catalogue determination is <u>R. appendiculatus</u> .

ORIGINAL DETERMINATIONCURRENT STATUS

N	499	N	499 MISSING
	<u>Ixodes canisuga</u> 1 larva		
	Mole		
	Longner Hall, Shrewsbury, England		
	10.XI.1908		
	Sent by Mr. R.F.L. Burton		
N	500	N	500 MISSING
	<u>Argas persicus</u>		
	Persia		
	Sent 21.XI.1908		
	Dr. Nattan-Larrier of Paris		
N	501	N	501
		RML	56922
	<u>Ixodes canisuga</u> ♀		25 ♀ <u>Ixodes canisuga</u>
	Horse		Horse
	Cambridge		Cambridge (52.13 N, 00.08 E), England
	Received 20.V.1908		Received 20.V.1908
	Received from Mr. G. Banham F.R.C.V.S.		Received from Mr. G. Banham F.R.C.V.S.
	2 ♀ to N.Y. National Museum 18.IV.1913		1 ♀ from the Bishopp Collection (Bishopp number 3230) is in the RML collection. Cited: Nuttall & Warburton (1911: 214).

ORIGINAL DETERMINATIONCURRENT STATUS

502-505. Ticks received from Dr. Graham, Medical Officer of Health,
Gold Coast, W. Africa, Dec. 1908.

N 502

N 502

RML 104983

Aponomma laeve3 ♂, 9 ♀ Aponomma latum

Large black snake

Large black snake

Axim, Gold Coast, W. Africa

Axim (04.52 N, 02.14 W), Ghana

1908

1908

Received from Dr. Graham

Received from Dr. Graham

N 503

N 503

RML 104984

Ixodes rarus4 ♀ Ixodes cumulatimpunctatus

Leopard

Panthera pardus

Obuasi, Ashanti, W. Africa

Obuasi (06.55 N, 01.41 W)
Ashanti Region, Ghana

1908

1908

Received from Dr. Graham

Received from Dr. Graham

Cited: Nuttall and Warburton (1911:
230).

Cited: Arthur and Burrow (1957: 505).

N 504

N 504

RML 96399

Haemaphysalis parvata2 ♂, 2 ♀, 1 N Haemaphysalis parvata

Prahsu, Gold Coast

Prahsu (05.56 N, 01.22 W), Ghana

1908

1908

Dr. Graham

Dr. Graham

Nuttall and Warburton (1915: 421)
cite this collection as 2 ♂, 1 ♀, 2 N.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	505	N	505 MISSING
	<u>Ixodes rarus</u>		
	Man and dog		
	Kumasi, Ashanti, W. Africa		
	X.1907		
	Dr. Graham		
N	506	N	506
		RML	104985
	<u>Ixodes angustus</u>		2 ♀ <u>Ixodes angustus</u>
	<u>Sciurus hudsonicus</u>		<u>Tamiasciurus hudsonicus</u>
	Vancouver, British Columbia		Vancouver (49.15 N, 123.08 W), British Columbia, Canada
	Rec'd 10.XII.1908		Rec'd 10.XII.1908
	Rec'd from T. Bowhill, F.R.C.V.S.		Rec'd from T. Bowhill, F.R.C.V.S.
			Cited: Nuttall & Warburton (1911: 197).
507-508. Ticks received from Dr. H. Bayon, Medical Superintendent, Sesse S.S. Camp, Entebbe, Uganda, B.E. Africa 17.XI.1908:			
N	507	N	507
		RML	104986
	<u>Haemaphysalis leachi</u> ♂ ♀		1 ♂, 1 ♀ <u>Haemaphysalis leachi</u>
	Cattle		Cattle
	Lake Victoria, Nyanza		Lake Victoria, Nyanza (00.30S, 34.30E), Kenya
	Rec'd 17.XI.1908		Rec'd 17.XI.1908
	Rec'd from Dr. H. Bayon		Rec'd from Dr. H. Bayon

ORIGINAL DETERMINATIONCURRENT STATUS

N 508

Aponomma exornatum

Water lizard

Sesse Islands, Lake Victoria

Rec'd 17.XI.1908

Rec'd from Dr. H. Bayon

Water lizard very common in Sesse Islands. 1 ♂, 1 ♀ to Dr. S. Hadwen British Columbia, Canada 10.X.1910.
1 ♂, 1 ♀ to Dr. Lajos Gozony, Univ. Budapest, Hungary 23.I.1915.
1 ♂ to Launcelot Harrison, Australia 9.V.1919.
1 ♂ to Prof. M. Jesus Maynar Zaragoza, Spain 10.V.1919.
1 ♂ to Prof. Poulton, Oxford 26.V.1919.
1 ♂ to Prof. E. Hindle, Cambridge 24.IX.1919.
1 ♂ to Major Lothian, School of Hygiene, Blackpool 25.IX.1919.

N 509

Ixodes ricinus 4 ♂, 2 N

Roe deer, Cervus capreolus

? British

Gift of Hon. N. C. Rothschild

Mounted on 5 slides (R982, 984-987)

N 508

RML 104987

22 ♂ Aponomma exornatum

Water lizard

Sese Islands (00.20 S, 32.20 E), Lake Victoria, Uganda

Rec'd 17.XI.1908

Rec'd from Dr. H. Bayon

N 509 MISSING

Ticks collected 1905-1907 in Ceylon by Mr. E. E. Green, F.E.S., who wants names, and, if possible, duplicates returned. Can give particulars of any numbered specimens by reference to his "Notes" on his return to Ceylon in Feb. 1909. Present address, Mote Hall, Bearsted, Kent (16.XII.1908).

ORIGINAL DETERMINATIONCURRENT STATUS

N 510

N 510

RML 104988

Haemaphysalis bispinosa 1 ♀1 ♀ Haemaphysalis bispinosa

Dog

Dog

Ceylon

Sri Lanka

I.1909

E. E. Green

E. E. Green

Edward Ernest Green (1861-1949), born in Ceylon, educated in England. Government Entomologist to Ceylon 1899-1913 and international authority on scale insects.

Cited: Nuttall & Warburton (1915: 432).

N 511

N 511 MISSING

Rhipicephalus sanguineus 2 ♀'s

Found on verandah wall

Ceylon

E. E. Green

Peradeniya, Ceylon, in June
Ret'd

ORIGINAL DETERMINATIONCURRENT STATUS

N 512

N 512, a

RML 104995

Rhipicephalus sanguineus 4 ♀
(2 kept)2 ♀ Rhipicephalus haemaphysaloides
(a) 2 ♀ Amblyomma integrum

Ceylon

Sri Lanka

E. E. Green

E. E. Green

"Miscellaneous Ixodidae"

The Amblyomma integrum collection was not entered in the catalogue. The specimens were collected by Mr. Green at Matara (05.56 N, 80.33 E), Sri Lanka in 1906.

ORIGINAL DETERMINATIONCURRENT STATUS

N 513

N 513 MISSING

Rhipicephalus sanguineus

♂'s ♀'s

Cattle

Pullalam

(December)

E. E. Green

All sent back to Green

N 514

N 514

RML 104989

Hyalomma aegyptium1 ♂ Hyalomma marginatum isaaciLunugalla, Ceylon
4,000 ft.Lunugalla (07.01 N, 81.00 E),
4,000 ft. (1219 M), Sri Lanka

VII.1907

VII.1907

E. E. Green

E. E. Green

ORIGINAL DETERMINATIONCURRENT STATUS

N	515a, b	N	515a, b
		RML	76102
	(a) <u>Haemaphysalis bispinosa</u> <u>intermedia</u> n. sp. W & N 1909 (Type)		(515) 11 ♀ <u>Boophilus microplus</u>
	(b) <u>Haemaphysalis bispinosa</u> ♀		(a) 1 ♀ <u>Haemaphysalis intermedia</u> Lectotype
	Cattle		(b) 1 ♀ <u>Haemaphysalis bispinosa</u>
	Matara, Ceylon		Cattle
	VII.1906		Matara (05.56 N, 80.33 E), Sri Lanka
	E. E. Green		VII.1906
			E. E. Green
			(515) was not entered in the catalogue.
			(a) Warburton & Nuttall (1909: 69), original description.
			Hoogstraal & Trapido (1963b: 838) selection of lectotype; also cited: Nuttall & Warburton (1915: 432).
			The vulva of 515a is on a slide.
N	516	N	516 MISSING
	<u>Ixodes putus</u> 5 N's		
	<u>Diomedea salvinii</u> (albatross) no data		
	Gift of Hon. N. C. Rothschild		
	(5 slides R901-3, 905)		

ORIGINAL DETERMINATION	CURRENT STATUS
N 517	N 517
<u>Ixodes putus</u> 1 ♀ <u>Uria lachrymans</u> (ringed guillemot) no data	RML 104990 5 ♂, 8 ♀, 3 N <u>Boophilus microplus</u> Cattle Matara (05.56 N, 80.33 E), Sri Lanka VII.1906
Gift of Hon. N. C. Rothschild [1 slide] (R934) slide missing [J.E.K.]	E. E. Green The collection data fit N 515 although the vial label indicates 517.
N 518	N 518
<u>Ixodes putus</u> 5 larvae Puffin Probably British	RML 104991 4 ♂, 1 ♀ <u>Amblyomma integrum</u> ?host Sri Lanka 1907
Gift of Hon. N. C. Rothschild [5 slides I-V] (R975-979) G.H.F.N. det. 12.II.1915 Slides missing [J.E.K.]	E. E. Green Robinson (1926: 114) cites this collection ex? cattle, Matara, Ceylon, 1906. Nuttall evidently duplicated the number 518. This collection was not entered in the catalogue.

ORIGINAL DETERMINATIONCURRENT STATUS

N 519

Haemaphysalis sp.? larvaeCervus axis

Vavuniya

Rec'd from Mr. E. E. Green

N 519

RML 104992

5 L Haemaphysalis sp.Cervus axisVavuniya (08.45 N, 80.30 E),
Sri Lanka

I.1909

Rec'd from Mr. E. E. Green

Dates for 517 - 519 taken from
vial labels.

N 520

Rhipicephalus sanguineus ♀ & eggs

Dog?

Returned to Green

N 520 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 521

N 521

RML 104993

Aponomma exornatum13 ♂ Aponomma exornatumVaranus niloticusVaranus niloticus

Iguana
 Pietermaritzburg, Natal,
 S. Africa

Pietermaritzburg (29.37 S,
 30.23 E), Natal, Republic of
 South Africa

4.XI.1908

4.XI.1908

Dr. W. Watkins Pitchford

Dr. W. Watkins Pitchford

"Dark chocolate brown, with
 metallic green and gold markings
 on back"....."Small ticks
 adhering in a closely packed
 patch to skin of under surface
 of base of tail posterior to
 anus. Their presence produces
 an ulceration. Commonly found
 in this situation at this season
 of the year. Blood films on
 host, examined at same time,
 show no recognizable abnorm-
 ality." (All foregoing on
 label accompanying specimens)
 Thinks they may be new. See
 letter of 17.XI.1908 to G.H.F.N.

ORIGINAL DETERMINATIONCURRENT STATUS

N 522

N 522

RML 104994

Argas vespertilionis Nymph II1 N Argas vespertilionis

Guestline Rectory, Hastings

Guestline Rectory, Hastings
(50.51 N, 00.36 E), England

XII.1908

XII.1908

Rev. E. N. Bloomfield

Rev. E. N. Bloomfield

Rec'd. by C. Warburton 5.I.1909
 He has sent specimens he says to
 British Museum "It is almost
 certainly from the rare serotine
 bat of which there is a colony
 on an inaccessible part of the
 roof of my house." It was
 found at one time not uncommonly
 in the room below the bat colony.

N 523

N 523

RML 104996

Ixodes brunneus ♀
 (minus hypostome, digits)
1 ♀ Ixodes frontalisPasser montanusPasser montanusSt. Genes de Malgoire
(Gard) FranceSaint-Genies-de-Malgoires
(43.57 N, 04.13 E), France

16.XI.1908

16.XI.1908

Sent by Hon. N. C. Rothschild
 who received specimens from
 Albert Hugues, Naturalist

Sent by Hon. N. C. Rothschild who
 received specimens from Albert
 Hugues, Naturalist

Bird found dead with tick
 attached to neck.

ORIGINAL DETERMINATIONCURRENT STATUS

N 524, a

N 524, a

RML 104997

Haemaphysalis campanulata
(a) Boophilus sp. incert1 ♀ Haemaphysalis campanulata
(a) 7 ♀ Boophilus microplus

Cattle and horses

Cattle and horses

Wei-hai-Wei, China

Wei-Hai (37.30 N, 122.06 E),
Peoples Republic of China

Rec'd 5.I.1909

Rec'd 12.X.1908

Rec'd from Dr. W. M. Muat
Medical Officer of Health at
Wei-hai-Wei.Rec'd from Dr. W. M. Muat
Medical Officer of Health at
Wei-hai-Wei

Collection date from vial label

Cited: Nuttall & Warburton (1915; 492).

525-531. Ticks received January, 1909, from Mr. H. H. King, who collected them in Sudan (1908). He will give particulars later by reference to the letters which he has marked. Determined by C. Warburton.

N 525

N 525

RML 104998

Rhipicephalus sanguineus ♂'s ♀'s4 ♂, 6 ♀ Rhipicephalus sanguineus

Sudan

Sudan

1908

I.1908

ORIGINAL DETERMINATIONCURRENT STATUS

N 526

Amblyomma lepidum ♀ var. with long scutum

Sudan

1908

N 526 MISSING

N 527

Amblyomma lepidum 1 ♂

Cattle

Tonga, Upper White Nile

Rec'd I.1909

H. H. King

Tick also said to occur in Uganda

N 527

RML 104999

1 ♂ Amblyomma variegatum

Cattle

Tonga (09.28 N, 31.03 E), Sudan

Rec'd I.1909

H. H. King

N 528

Amblyomma tholloni 1 ♀

Elephant

Sudan

1908

H. H. King

N 528

RML 109235

1 ♀ Amblyomma tholloni

Loxodonta africana

Sudan

1908

H. H. King

Cited: Robinson (1926: 252) but no Nuttall number given.

ORIGINAL DETERMINATIONCURRENT STATUS

N	529	N	529
		RML	109236
	<u>Amblyomma lepidum</u> 4 ♂ (which we pro tem call <u>hebraeum-variegatum</u>)		4 ♂ <u>Amblyomma lepidum</u>
	Cattle		Cattle
	Tonga, Upper White Nile, Sudan		Tonga (09.28 N, 31.03 E), Sudan
	1909		1909
	H. H. King		H. H. King
	W. Dönitz det 14.III.1912		Cited: Robinson (1926: 96).
N	530	N	530
		RML	109237
	<u>Rhipicephalus sanguineus</u>		3 ♂, 1 ♀ <u>Rhipicephalus simus</u>
	Sudan		Sudan
	1908		1908
	H. H. King		H. H. King
N	531	N	531
		RML	109238
	<u>Aponomma exornatum</u> 1 ♂		1 ♂ <u>Aponomma flavomaculatum</u>
	Sudan		Sudan
	1908		1908
	H. H. King		H. H. King

ORIGINAL DETERMINATIONCURRENT STATUS

N 532 a-c

N 532c

RML 109239

- (a) Boophilus decoloratus ♀'s
 (b) Boophilus decoloratus ♂'s
 young ♀'s
 (c) Haemaphysalis leachi ♂'s & ♀'s

(a) MISSING

(b) MISSING

(c) 3 ♂, 4 ♀ Haemaphysalis leachi

Entebbe, Uganda, B.E. Africa

Entebbe (00.04 N, 32.28 E), Uganda

Rec'd 12.I.1909

Rec'd 12.I.1909

Rec'd from R. P. Riches

Rec'd from R. P. Riches

1 ♂, 1 ♀ to Prof. B. Galli-Valerio,
 Lausanne, Switzerland, 14.III.1912

1 ♂, , ♀ to Prof. Dr. M. Miyajima
 Tokio, Japan 7.III.1912

1 ♂, 1 ♀ to Dr. G. L. Tuck,
 Tientsien, China 17.II.1912

1 ♂, 1 ♀ to A. H. Cockayne,
 Wellington, N.Z.

(All ticks sent are from 532c)

N 533

Nuttall inadvertently omitted
 this catalogue number.

534-538. Ticks received from Captain R. Ford (The Elms, Wisborough Green, Sussex 10.I.1909). Wants particulars and duplicates, which we do not need, returned. All from British East Africa.

N 534

N 534

RML 109240

Rhipicephalus pulchellus 3 ♂, 2 ♀3 ♂, 2 ♀ Rhipicephalus pulchellus

Zebra

Equus burchelliAthi Plains, 30 miles N of
Nairobi (dry season).Athi Plains (01.25 S, 36.53 E),
Kenya

10.III.1906

10.III.1906

Capt. R. Ford

Capt. R. Ford

N 535

N 535

RML 109241

Rhipicephalus pulchellus 2 N's2 N Rhipicephalus pulchellusOff R. Ford's body or that of a
native boyOff R. Ford's body or that of
native boyAthi Plains, 30 miles N. of
Nairobi (dry season)Athi Plains (01.25 S, 36.53 E),
Kenya

9.III.1906

10.III.1906

Capt. R. Ford

Capt. R. Ford

(Found with one typical gorged ♀
from which N appears inornate; ♀
returned) 9.III.1906
Same source as No. 534.Vial label date disagrees with
catalogue.

ORIGINAL DETERMINATIONCURRENT STATUS

N	536	N	536
		RML	109242
	<u>Rhipicephalus pulchellus</u> 2 N's		2 N <u>Rhipicephalus</u> sp.
	Hartebeest		<u>Alcelaphus buselaphus</u>
	Harley's Land, 30 miles N. of Nairobi		Harley's Land, 30 miles N. of Nairobi, Kenya (locality not verified)
	10.III.1906		10.III.1906
	Capt. R. Ford		Capt. R. Ford
	Label states "identified by L. G. Neumann"		
N	537	N	537 MISSING
	<u>Rhipicephalus evertsi</u> (adults)		
	Hartebeest		
	30 miles N. of Nairobi		
	Capt. R. Ford		
	"Identified by A. S. Hirst, seen by Neumann," 1906. All returned to collector.		
N	538	N	538 MISSING
	<u>Dermacentor rhinocerotis</u> 3 ♂, 1 ♀ (kept 1 large ♂, 1 ♀)		
	Rhinoceros		
	Walo River, British East Africa		
	Capt. R. Ford		

ORIGINAL DETERMINATIONCURRENT STATUS

N 539

N 539 MISSING

Haemaphysalis leachi ♂Erinaceus albiventris

Gebel Auli, White Nile, Egypt

9.V.1900

S. & F. Witherby. Rec'd from
Hon N. C. Rothschild (No. 1036)
1908.

Det. by G.H.F.N. 27.I.1909
[1 ♂ mounted in balsam on slide]

540-543. Ticks received from Dr. J. C. Koningsberger 22.I.1909 from Buitenzorg, Java. Collected in Sumatra and Bali.

ORIGINAL DETERMINATIONCURRENT STATUS

N 540a-j

N 540a-d, f-j

RML 109243

(a) Amblyomma testudinarium ♂'s ♀(a) 13 ♂, 2 ♀ Amblyomma testudinarium(b) Rhipicephalus haemaphysaloides
3 ♂'s, 3 ♀'s(b) 2 ♂, 3 ♀ Rhipicephalus
pilans(c) Haemaphysalis proxima n. sp.
W & N 1909 1 ♀(c) 1 ♀ Haemaphysalis cornigera
TYPE of H. proxima
1 N Haemaphysalis cornigera
tentative ID in a separate vial(d) Boophilus australis ♂'s ♀'s & N's(d) 5 ♂, 34 ♀, 3 N Boophilus microplus(e) Amblyomma testudinarium ♂'s ♀'s

(e) MISSING

(f) Rhipicephalus haemaphysaloides
4 ♂'s(f) 4 ♂ Rhipicephalus pilans(g) Boophilus australis ♀'s ♀(g) 1 ♂, 17 ♀, 3 N Boophilus microplus(h) Amblyomma testudinarium ♂'s(h) 6 ♂, 1 N Amblyomma testudinarium(i) Rhipicephalus haemaphysaloides
♂'s ♀'s(i) 11 ♂, 1 ♀ Rhipicephalus pilans(j) Boophilus australis ♂'s ♀(j) 8 ♂, 35 ♀, 6 N Boophilus microplusBos bubalusBubalus bubalis

West Coast of Sumatra

West Coast of Sumatra

IX.1908

Dr. J. C. Koningsberger

Dr. J. C. Koningsberger

540d 1 ♂, 1 ♀ to Dr. J. H. Ashworth,
Edinburgh 22.VI.1910540c Warburton & Nuttall (1909: 61),
original description of H. proxima.
The vulva of this ♀ has been removed
and is now on a slide.540h 1 ♂ to Prof. R. Matheson,
Cornell 27.V.1929Collection date is on vial label
but not in catalogue.

540a & h cited: Robinson (1926: 257).

ORIGINAL DETERMINATIONCURRENT STATUS

N. 541

N 541

RML 109244

Amblyomma testudinarium 3 ♂, 1 ♀3 ♂, 1 ♀ Amblyomma testudinariumCervus sp.Cervus sp.

Bali

Bali

IX.1908

IX.1908

Dr. J. C. Koningsberger

Dr. J. C. Koningsberger

Cited: Robinson (1926: 257)

N 542

N 542

RML 109245

Haemaphysalis parvata 1 ♀
(bad specimen)1 ♀ Haemaphysalis sp.Equus cab.

Horse

Bali

Bali

1908

1908

Dr. J. C. Koningsberger

Dr. J. C. Koningsberger

The vial label locality, German
West Africa, is in error.

N 543

N 543

RML 104246

Boophilus australis ♀'s6 ♀ Boophilus microplusBosBos sp.

Bali

Bali

IX.1908

22.I.1909

Dr. J. C. Koningsberger

Dr. J. C. Koningsberger

Vial label date shows date received
rather than date collected.

544-596. Ticks received from Hon. N. Charles Rothschild, M.A., 1908.
The numbers in brackets, thus [R253] are in accordance with his list:

ORIGINAL DETERMINATIONCURRENT STATUS

N	544	N	544	MISSING
	<u>Amblyomma</u> sp. not <u>varium</u>			
	<u>Bradypus</u> <u>tridactylus</u>			
	Brazil			
	[R253]			
N	545	N	545	
		RML	109247	
	<u>Amblyomma</u> sp.		1 ♀ <u>Amblyomma</u> <u>geoemydae</u> (tentative ID)	
	On ground		On ground	
	Paquil, Luzon		Paquil, Luzon, Philippines (locality not verified)	
	15.I.1895		15.I.1895	
	A. Everett		A. Everett	
	[R 258]			
N	546	N	546	
		RML	109248	
	<u>Amblyomma</u> <u>triguttatum</u>		4 ♀ <u>Amblyomma</u> <u>triguttatum</u>	
	Kangaroo		Kangaroo	
	Barrow Island, N.W. Australia		Barrow Island (20.48 S, 115.23 E), Australia	
	XI.1900		XI.1900	
	C. J. T. Tanney		C. J. T. Tanney	
	Det. by L. E. Robinson		Cited: Robinson (1926: 57) who indicated that ♂'s were also present in this collection.	

ORIGINAL DETERMINATIONCURRENT STATUS

N 547

N 547

RML 109249

Amblyomma australiense 6 ♂, 1 ♀6 ♂, 1 ♀ Amblyomma australienseEchidna aculeataTachyglossus aculeatus

Mt. Anderson, W. Australia

Mt. Anderson (17.58 S, 124.04 E),
Australia

C. J. T. Tanney

C. J. T. Tanney

[R 274]

Robinson (1926: 135, 136)
illustrated ♂ and ♀ from this
collection. Taylor (1946: 100)
repeated Robinson's descriptions
and illustrations.

N 548

N 548 MISSING

Aponomma gervaisi

Boa

II.1887

Given to D. S. MacLagan
14.X.1938 [R 257]

N 549

N 549

RML 109250

Hyalomma syriacum4 ♂ Hyalomma aegyptium

Tortoise

Tortoise

[R 254]

1 ♂, 1 ♀ to New York National
Museum, New York City
18.IV.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 550

N 550

RML 109251

Aponomma decorosum2 ♂ Aponomma decorosum

Australian monitor

Australian monitor

[R 196]

N 551

N 551 MISSING

Amblyomma triguttatum

Kangaroo

Barrow Island, N. W. Australia

20.XI.1900

C. J. T. T.

[R 181]

N 552

N 552

RML 109252

Amblyomma triguttatum2 ♂, 3 ♀ Amblyomma triguttatum

Kangaroo

Kangaroo

Barrow Island, N. W. Australia

Barrow Island (20.48 S, 115.23 E),
Australia

XI.1900

20.XI.1900

C. J. T. Tanney

Cited: Robinson (1926: 57).
Date taken from vial label.

[R 179]

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	553	N	553
	<u>Amblyomma triguttatum</u>	RML	109253
	Kangaroo		4 ♂, 13 N <u>Amblyomma triguttatum</u>
	Barrow Island, N. W. Australia		Kangaroo
	18.XI.1900		Barrow Island (20.48 S, 115.23 E), Australia
	C. J. T. Tanney		18.XI.1900
	[R 211]		C. J. T. Tanney
			Cited: Robinson (1926: 57).
N	554	N	554
	<u>Aponomma exornatum</u>	RML	109254
	<u>Monitor strix</u>		2 ♂ <u>Aponomma varanensis</u>
	? Australia		<u>Monitor strix</u> (name not verified)
	[R 236]		? Australia
			Collection probably not from Australia. The only collection of <u>A. varanensis</u> from Australia is the type ♂ of <u>A. quadratus</u> (an inornate form of <u>A. varanensis</u>). The single record may have been an accidental importation of tick and host.
N	555	N	555
	<u>Dermacentor rhinocerotis</u>	RML	109255
	No other data		7 ♂ <u>Dermacentor rhinocerinus</u>
	[R 2592]		There is an additional ♂ <u>D. rhinocerinus</u> mounted on a slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N 556

N 556

RML 109256

Aponomma hydrosauri2 ♂, 1 ♀ Aponomma hydrosauri

? Adelaide, W. Australia

? Adelaide (34.55 S, 138.35 E),
Australia

[R 287]

N 557

N 557

RML 109257

Amblyomma cajennense1 ♂, 2 ♀ Amblyomma cajennense
3 ♂ Amblyomma pecarium

Peccary

Tayassu sp.

Marpat, Tabasco

San Andres, Estado de Tabasco
(18.00 N, 92.40 W), Mexico

30.V.?

[R 198]

Robinson (1926: 53) incorrectly
gave the Nuttall number 577.

N 558a, b

N 558a, b

RML 109258

(a) Hyalomma aegyptium ♂ ♀(a) 1 ♂, 1 ♀ Hyalomma rufipes(b) Amblyomma gemma 2 ♂(b) 2 ♂ Amblyomma gemma

Giraffe

Giraffa camelopardalis

[R 263]

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	559	N	559
		RML	109259
	<u>Amblyomma tholloni</u> 1 ♀		1 ♀ <u>Amblyomma tholloni</u>
	Ruwenzori, Africa		Ruwenzori (00.23 N, 29.54 E), a mountain on the Uganda-Zaire border.
	1906		1906
	A. F. R. Wollaston		A. F. R. Wollaston
	[R 285]		Cited: Robinson (1926: 252).
N	560	N	560
		RML	109260
	<u>Amblyomma longirostre</u> 1 ♂		1 ♂ <u>Amblyomma longirostre</u>
	<u>Coendou simonsi</u>		<u>Coendou bicolor simonsi</u>
	Charuplaya, Bolivia		Charapaya (17.22 S, 66.45 W), Bolivia
	22.VI.1901		22.VI.1901
	P. O. Simons		P. O. Simons
	[R 260]		Cited: Robinson (1926: 140).
N	561	N	561
		RML	109261
	<u>Hyalomma syriacum</u>		4 ♂ <u>Hyalomma aegyptium</u>
	Algerian tortoise		Algerian tortoise
	Hon. N. C. Rothschild		Hon. N. C. Rothschild
	No R. number		

ORIGINAL DETERMINATIONCURRENT STATUS

N	562	N	562
		RML	109262
	<u>Amblyomma ovale</u>		2 ♂ <u>Amblyomma ovale</u>
	<u>Speothos venaticus</u>		<u>Speothos venaticus</u>
	Charuplaya, Bolivia		Charapaya (17.22 S, 66.45 W), Bolivia
	27.VI.1901		27.VI.1901
	P. O. Simons		P. O. Simons
	[R 261]		
N	563	N	563
		RML	109263
	<u>Dermacentor rhinocerotis</u> 10 ♂'s		7 ♂ <u>Dermacentor rhinocerus</u>
	Rhinoceros		Rhinoceros
			Malawi
			1907
	[R 266]		Data on locality and date from
	1 ♂ to Dr. J. G. Parham,		Nuttall's notebook on ticks sent
	Portuguese East Africa 18.IV.1913		to various institutions and
	1 ♂ to N.Y. National Museum,		individuals.
	18.IV.1913		
N	564	N	564
		RML	109264
	<u>Amblyomma sublaeve</u>		6 ♂ <u>Amblyomma compressum</u>
	White-bellied Pangolin		<u>Manis tricuspis</u>
	[R 218]		

ORIGINAL DETERMINATIONCURRENT STATUS

N 565

N 565

RML 109265

Amblyomma quasicyprium 1 ♀ TYPE1 ♀ Amblyomma cypriumAteles melanochirAteles g. geoffroyi

Frontera, Tabasco, Mexico

Frontera (18.32 N, 92.38 W),
Tabasco, Mexico

[R 243]

Robinson (1926: 237, 238)
incorrectly gave the Nuttall
number 564 for this collection.
Taylor (1946: 116) repeated
Robinson's error. Cited: Keirans
& Brewster (1981: 175).

Both the locality and host are
incorrect for Amblyomma cyprium
although this ♀ appears to be
true A. cyprium.

N 566

N 566

RML 109266

Amblyomma ovale 1 ♀1 ♀ Amblyomma ovaleSpeothos venaticusSpeothos venaticus

Charuplaya, Bolivia

Charapaya (17.22 S, 66.45 W),
Bolivia

[R 270]

Robinson (1926: 29) gave the date
as 1900 and indicated the collection
contained only males.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	567	N	567
		RML	109267
	<u>Amblyomma albolimbatus</u>		2 ♂, 1 ♀ <u>Amblyomma albolimbatus</u>
	<u>Morelia variegata</u>		<u>Morelia spilotes variegata</u>
	Perth, W. Australia		Perth (31.56 S, 115.50 E), Australia
	Woodward		Woodward
	[R 282]		The specimens have a very slight second spur on coxae II.
N	568	N	568
		RML	109268
	<u>Amblyomma dissimile</u>		7 ♂, 2 ♀, 7 N <u>Amblyomma dissimile</u>
	Large snake		Large snake
	Small label seems to read thus - "Frontera Massacula" ? Tabasco		Probably Frontera (18.32 N, 92.38 W), Tabasco, Mexico
	May 1		1.V.1901
	[R 231]		Full date on vial label. Robinson (1926: 167) indicated the date as V.1900 and that only one female was present with the males.
N	569	N	569
		RML	109269
	<u>Amblyomma albolimbatus</u>		1 ♀ <u>Amblyomma albolimbatus</u>
	<u>Diemenia superciliosa</u>		<u>Diemenia textilis</u>
	Herdman's Lake, W. Australia		Herdman's Lake near Perth (31.56 S, 115.15 E), Australia
	[R 267]		Robinson (1926: 226) figured this ♀; on p. 227 he incorrectly gave the collection number as N 1569.

ORIGINAL DETERMINATIONCURRENT STATUS

N 570

N 570

RML 109270

Amblyomma marmoreum2 ♂ Amblyomma marmoreum

Leopard tortoise

Leopard tortoise

Africa

[R 182]

Note to 570 from Mr. Robinson
 17.XI.1922: "They originally
 showed the characteristic
 ornamentation, sufficient of
 which is still visible, especially
 if examined under alcohol, to
 leave no doubt. The coarse
 punctations are larger than
 those seen in specimens off
 Rhinoceros in East Africa, and
 the dark ornamentation is more
 salient, but I do not consider
 these differences to be of
 specific importance. The
 other morphological characters
 are typical."

N 571

N 571 MISSING

AponommaDiemenia superciliosa

Herdman's Lake, Perth, W. Australia

[R 279]

ORIGINAL DETERMINATIONCURRENT STATUS

N 572

Haemaphysalis hystricis

Canis familiaris

Lhassia, Assam, India

1907

R. A. Lorrain

[R 288]
 1 ♂, 1 ♀ to L. O. Howard
 U.S.D.A. 21.V.1909.
 1 ♀ to C. Strickland, Malaya

N 572

RML 109001

3 ♀ Haemaphysalis hystricis

Canis familiaris

Lhassia, Assam (26.00 N, 92.00 E)
 India

1907

R. A. Lorrain

The specimens sent to L. O. Howard
 are now in the RML collection.
 Cited: Nuttall & Warburton (1915:
 425); Hoogstraal et al.
 (1965a: 476) gave combined
 collection data for N 572 & 573.

N 573

Haemaphysalis hystricis

Canis familiaris

Lhassia, Assam, India

1907

R. A. Lorrain

[R 293]

N 573

RML 109271

2 ♀ Haemaphysalis hystricis

Canis familiaris

Lhassia, Assam (26.00 N, 92.00 E),
 India

1907

R. A. Lorrain

Hoogstraal et al (1965a) gave
 combined collection data for
 N 572 & 573.

ORIGINAL DETERMINATION

N 574

Haemaphysalis bispinosa

No other data

[R 294c]

N 575

Haemaphysalis hystricis ♀

No other data

[R 243]

N 575x

Haemaphysalis leachiHyaena crocuta

Darie

(Exp. Erlanger Hilgert)

[R 163]

CURRENT STATUS

N 574

RML 109272

10 ♂, 6 ♀, 1 N Haemaphysalis bispinosa

No other data

N 575

RML 109273

2 ♀ Haemaphysalis hystricis

No other data

Nuttall 565 & 3330 also bear
Rothschild No. R 243

N 575x

RML 109274

1 ♂ Haemaphysalis indicaHyaena hyaenaDarie (Locality not verified)
There is a Darhi in India and
several localities spelled Dari
in Pakistan where H. indica
could be found.

(Exp. Erlanger Hilgert)

The catalogue number is N 575x
but the number on the vial label
is N 575a. Nuttall 1395 also
bears Rothschild No. R 163.

ORIGINAL DETERMINATIONCURRENT STATUS

N 576

Haemaphysalis hystrix

Canis familiaris

Lushai Mountains, Assam, India

1907

R. A. Lorrain

[R 294a]

N 576

RML 109275

1 ♀, 1 N Haemaphysalis hystrix

Canis familiaris

Lushai Hills (23.10 N, 92.50 E),
Assam, India

1907

R. A. Lorrain

Nuttall & Warburton (1915: 425)
indicated that this collection
was composed of 1 ♂, 3 ♀.
Hoogstraal et al. (1965a: 476)
saw the ♀ labelled N 576ii.
The nymph, in a separate vial
bears the label N 576i.

N 577

Haemaphysalis leachi

Ictonyx capensis

Bulawayo, S. Rhodesia, S. Africa

3.IV.1907

E. C. Chubb

[R 297]

N 577

RML 109276

1 ♂, 1 ♀ Haemaphysalis leachi

Ictonyx striatus

Bulawayo (20.09 S, 28.35 E),
Zimbabwe

3.IV.1907

E. C. Chubb

Nuttall 595 also bears Rothschild
No. R 294.
Cited: Nuttall & Warburton
(1915: 471).

ORIGINAL DETERMINATIONCURRENT STATUS

N 578

N 578

RML 109277

Haemaphysalis leachi (?)
(not long enough)2 ♂, 1 ♀ Haemaphysalis leachiLuricata tetradactylaSuricata suricata subsp.

Deelfontein, S. Africa

Deelfontein (20.12 S, 32.28 E),
Zimbabwe

1.IV.1902

1.IV.1902

C. J. B. Grant

C. J. B. Grant

[R 154]

Nuttall & Warburton (1915: 472)
indicated the host genus as
Suricata. However, the collection
locality appears to be out of the
known range of the mierkat.

N 579

N 579

RML 109278

Haemaphysalis campanulata2 ♂, 1 ♀ Haemaphysalis campanulataCanisCanis familiaris

Yokohama, Japan

Yokohama (35.26 N, 139.37 E), Japan

24.IV.1902

24.IV.1902

Allan Owston

Allan Owston

[R 212]

Nuttall & Warburton (1915: 492)
indicated the collection contained
2 ♂, 2 ♀ from a dog.
Nuttall 609 also bears Rothschild
No. R 212 but the data do not
correspond to N 579.

ORIGINAL DETERMINATIONCURRENT STATUS

N	580	N	580
		RML	109279
	<u>Haemaphysalis punctata</u> ♂ ♀		1 ♂, 1 ♀ <u>Haemaphysalis punctata</u>
	Cambridge		Cambridge (52.13 N, 00.08 E), England
	A. E. Shipley		A. E. Shipley
	[R 160] (Nuttall determined)		
N	581	N	581
		RML	109280
	<u>Haemaphysalis</u> sp. N (bad condition, very queer. C.W.)		1 N <u>Haemaphysalis</u> sp.
	Flying squirrel		Flying squirrel
	Bunguran, India		Possibly Bungura (26.20 N, 84.05 E), India
	[R 183]		
N	582	N	582
		RML	109281
	<u>Haemaphysalis bispinosa</u>		2 ♀ <u>Haemaphysalis bispinosa</u>
	<u>Equus</u>		<u>Equus caballus</u>
	Lushai Mts., Assam, India		Lushai Hills (23.10 N, 92.50 E), Assam, India
	26.VI.1907		26.VI.1907
	R. A. Lorrain		R. A. Lorrain
	[R 284]		Cited: Nuttall & Warburton (1915: 431).

ORIGINAL DETERMINATIONCURRENT STATUS

N 583

Haemaphysalis bispinosaTalpa

Lushai Mts., Assam, India

1907

R. A. Lorrain

[R 291]

N 583

RML 109282

1 ♂, 1 ♀ Haemaphysalis bispinosaTalpa sp.Lushai Hills (23.10 N, 92.50 E),
Assam, India

1907

R. A. Lorrain

Cited: Nuttall & Warburton
(1915: 431).

N 584

Rhipicephalus haemaphysaloides

No other data

[R 294b]

N 584

RML 109283

3 ♂, 1 ♀ Rhipicephalus
haemaphysaloides

No other data

N 585

Rhipicephalus appendiculatus

No other data

[R 242]

N 585

RML 109284

2 ♂ Rhipicephalus muelhensi

No other data

ORIGINAL DETERMINATIONCURRENT STATUS

N 586

Rhipicephalus sanguineus ♂

Camel

Unknown

[R 193]

N 586

RML 109285

1 ♂ Haemaphysalis sp.

Bear

Surnabad Transcaucasia

VIII.1909

Dr. E. Dschunkowsky

Vial label reads N 586 but this collection has nothing to do with catalogue No. N 586. The Rothschild collection [R 193] is missing.

N 587

Rhipicephalus sanguineus 2 ♂

Zaghig

25.II.1908

N. C. Rothschild

[R 151]

N 587 MISSING

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	588	N	588
		RML	109286
	<u>Boophilus</u> sp. <u>incert.</u>		10 ♀ <u>Boophilus microplus</u>
	Entre-Rios, Argentina		Probably Provincia de Entre Rios (32.00 S, 59.00 W) although there are two small populated areas with the name Entre Rios at 23.18 S, 64.11 W and 28.50 S, 64.11 W which could have been the collection locality.
	IV.1897		IV.1897
	Dr. C. Berg		Dr. C. Berg
	[R 255] [C. W. det 1918]		This collection also contained 1 ♂ of the human sucking louse, <u>Pediculus humanus</u> .
N	589	N	589
		RML	109287
	<u>Argas persicus</u>		9 ♂, 6 ♀ <u>Argas persicus</u>
	No other data		No other data
	[R 290]		
N	590	N	590
		RML	109288
	<u>Argas persicus</u>		11 ♂, 4 ♀, 11 N <u>Argas persicus</u>
	No other data		No other data
	[R 292]		
	1 ♂, 1 ♀ to J. de Meza, Zomba, Nyasaland 19.II.1916		

ORIGINAL DETERMINATIONCURRENT STATUS

N 591

Argas vespertilionis larvae

Bat

[R 214]

N 592

Argas vespertilionis larvae

Scot'us wroughtoni

Helwak near Satara, Western
Ghâts, India

[R 195]

N 593

Argas vespertilionis

Vesperugo pipistrellus

Puttenham

28.VII.1899

[R 224]

N 591

RML 109289

16 L Argas vespertilionis

Bat

N 592

RML 109290

3 L Argas vespertilionis

Scotophilus ~~tem~~mincki wroughtoni

Helwak (17.22 N, 73.44 E),
Maharashtra, India

N 593

RML 109291

3 L Argas vespertilionis

Pipistrellus pipistrellus

Puttenham (51.49 N, 00.44 W),
Hertfordshire, England

28.VII.1899

ORIGINAL DETERMINATIONCURRENT STATUS

N 594

Ornithodoros talaje

Nestlings

Arrows sand? Puhekiox, Hawaii

30.VI.1900

H. W. Henshaw

[R 240]

N 594

RML 109292

14 N Ornithodoros capensis group

Nestlings

Arrows sand? Puhekiox, Hawaii
(locality not verified)

30.VI.1900

H. W. Henshaw

N 595

Ornithodoros moubata

No other data

[R 294]

N 595 MISSING

N 596

Ornithodoros megnini N's

Okanagen, British Columbia

12.XII.1902

Allan Brooks

[R 157]

1 ♂ to Col. A. Alcock, FRD,
London School Tropical Medicine
26.I.1910

N 596 MISSING

597-613. Ticks received from Hon. N. C. Rothschild, M.A., during 1908.
The numbers in brackets thus [R 153] are in accordance with his list:

ORIGINAL DETERMINATIONCURRENT STATUS

N	597	N	597
		RML	109293
	<u>Ixodes hexagonus</u>		8 N, 1 L <u>Ixodes hexagonus</u>
	<u>Erinaceus europaeus</u>		<u>Erinaceus europaeus</u>
	Belgium		Belgium
	E. A. Boulanger		E. A. Boulanger
	[R 153]		Cited: Nuttall & Warburton (1911: 183).
N	598	N	598
		RML	109294
	<u>Ixodes hexagonus</u>		1 ♀, 6 N <u>Ixodes hexagonus</u>
	Otter (<u>Lutra vulgaris</u>)		<u>Lutra lutra</u>
			England
	[R 206]		Nuttall & Warburton (1911: 182) indicated that collection was made in England.
N	599	N	599
		RML	109295
	<u>Ixodes hexagonus</u>		3 ♀, 4 N <u>Ixodes hexagonus</u>
	<u>Erinaceus europaeus</u>		<u>Erinaceus europaeus</u>
	Cambridge		Cambridge (52.13 N, 00.08 E), England
	[R 209]		Cited: Nuttall & Warburton (1911: 182).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	600	N	600
		RML	109296
	<u>Ixodes hexagonus</u>		3 ♀, 1 L <u>Ixodes hexagonus</u>
	Polecat		<u>Mustela putorius</u>
	Boxworth		Boxworth (52.16 N, 00.02 W), England
	30.IV.1901		30.IV.1901
	[R 221]		Cited: Nuttall & Warburton (1911: 182).
N	601	N	601
		RML	16476
	<u>Ixodes hexagonus</u>		1 ♀, 41 L <u>Ixodes hexagonus</u>
	Otter (<u>Lutra vulgaris</u>)		<u>Lutra lutra</u>
			England
	[R 208]		Nuttall & Warburton (1911: 182) indicated that the locality was England. One larva of this collection was donated to the Rocky Mountain Laboratory collection by P. A. Buxton, London School of Hygiene and Tropical Medicine in 1940 (See also N 1159). One addi- tional nymph was presented to Dr. F.C. Bishopp and is now in the RML collection (Bishopp 3232).
N	602	N	602
		RML	109297
	<u>Ixodes hexagonus</u> ♀		1 ♀ <u>Ixodes hexagonus</u>
	<u>Mustela erminea</u>		<u>Mustela erminea</u>
	Tring, Herts		Tring (51.48 N, 00.40 W), Herts., England
	19.V.1903		19.V.1903
	[R 222]		Cited: Nuttall & Warburton (1911: 182).

ORIGINAL DETERMINATION

CURRENT STATUS

N	603	N	603
		RML	109298
	<u>Ixodes hexagonus</u>		2 ♀, 1 N <u>Ixodes hexagonus</u>
	<u>Mustela erminea</u>		<u>Mustela erminea</u>
	Wigginton		Wigginton (51.47 N, 00.38 W), Herts., England
	4.V.1903		4.V.1903
	Barrett		Barrett
	[R 179a]		Cited: Nuttall & Warburton (1911: 182).
N	604	N	604
		RML	109299
	<u>Ixodes hexagonus</u>		4 N <u>Ixodes hexagonus</u>
	<u>Mustela vulgaris</u>		<u>Mustela putorius</u>
	Tring, Herts		Tring (51.48 N, 00.40 W), Herts., England
	20.III.1902		20.III.1902
	[R 143]		Cited: Nuttall & Warburton (1911: 182).
N	605	N	605
		RML	109300
	<u>Ixodes hexagonus</u>		3 ♀ <u>Ixodes lividus</u>
	<u>Cotile riparia</u>		<u>Riparia riparia</u>
	Warsborough Bridge, Barnsley		Worsbrough Bridge (53.32 N, 01.28 W), Barnsley, England
	6.VII.1906		6.VII.1906
	A. Whitaker		A. Whitaker
	[R 164]		Cited: Arthur (1963: 92); Thompson (1967: 106).

ORIGINAL DETERMINATION

N 606

Ixodes hexagonus ♂'s, ♀'s & L

Polecat

Aberystwyth, Wales

26.XI.1902

[R 225]

CURRENT STATUS

N 606

RML 109301

3 ♀, 6 N, 8 L Ixodes hexagonusMustela putoriusAberystwyth (52.25 N, 04.05 W),
Wales

26.XI.1902

Cited: Nuttall & Warburton
(1911: 183).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	607	N	607
		RML	109302
	<u>Ixodes hexagonus</u>		1 N, 7 L <u>Ixodes hexagonus</u>
	<u>Mustela erminea</u>		<u>Mustela erminea</u>
	Tring, Herts		Tring (51.47N, 00.39 W) Herts, England
	3.IX.1902		3.IX.1902
	[R201]		Nuttall and Warburton (1911: 182) indicated that the collection contained only nymphs.
N	608	N	608
		RML	109303
	<u>Ixodes hexagonus</u>		4 N <u>Ixodes hexagonus</u>
	<u>Erinaceus europaeus</u>		<u>Erinaceus europaeus</u>
	Dernberg		Durnberg (48.13 N, 11.55 E), Federal Republic of Germany
	3.IX.1898		3.IX.1898
	[R215]		Nuttall and Warburton (1911: 183) gave the spelling as Dernburg rather than the catalogue spelling of Dernberg.

ORIGINAL DETERMINATIONCURRENT STATUS

N	609	N	609
		RML	109304
	<u>Ixodes hexagonus</u> N		1 N <u>Ixodes hexagonus</u>
	Polecat		<u>Mustela putorius</u>
	Aberystwyth, Wales		Aberystwyth (52.25 N, 04.05 W), Wales
	23.XII.1902		23.XII.1902
	[R212]		Cited: Nuttall and Warburton (1911: 183) indicated that more than one nymph was in this collection.
N	610	N	610
		RML	109305
	<u>Ixodes hexagonus</u> N's, larvae		1 N, 15 L <u>Ixodes hexagonus</u>
	<u>Mustela erminea</u>		<u>Mustela erminea</u>
	Tring, Herts.		Tring (51.48 N, 00.40 W) Herts., England
	7.V.1902		7.V.1902
	[R219]		Cited: Nuttall and Warburton (1911: 182).
N	611	N	611
		RML	109306
	<u>Ixodes hexagonus</u> N, larva		1 N, 1 L <u>Ixodes hexagonus</u>
	<u>Mustela erminea</u>		<u>Mustela erminea</u>
	Lyndhurst		Lyndhurst (50.52 N, 01.34 W) Hants., England
	20.III.1901		20.III.1901
	G. Tate		G. Tate
	[R145]		Nuttall and Warburton (1911: 182) indicated that multiple nymphs and larvae were in this collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N	612	N	612
		RML	109307
	<u>Ixodes hexagonus</u> ♀'s, N's		1 ♀, 7 N <u>Ixodes hexagonus</u>
	<u>Mustela erminea</u>		<u>Mustela erminea</u>
	Inismore		Inismore (54.18 N, 07.34 W), Ireland
	23.III.1902		23.III.1902
	[R180]		Cited: Nuttall and Warburton (1911: 183).
N	613	N	613
		RML	109308
	<u>Ixodes hexagonus</u> ♀'s, N's		5 N <u>Ixodes hexagonus</u>
	Stoat		<u>Mustela erminea</u>
	No other data		No other data
	[R202]		
N	614	N	614 MISSING
	<u>Ornithodoros moubata</u>		
	Nyasaland		
	Received 23.X.1908		
	Sent by Colonel W. B. Leishman		
	Fed 12.XI.1908 on a monkey with many <u>Spirochaeta duttoni</u> in its blood. Kept alive for study; adults, nymphs and eggs [1 ♀ mounted on slide in balsam]		

ORIGINAL DETERMINATIONCURRENT STATUS

N 615

N 615

RML 109309

Rhipicephalus simus larvae9 N, 79 L Rhipicephalus simus
99 L Rhipicephalus simusParent ♀ from Transvaal,
S. Africa

Transvaal, S. Africa

Rec'd from A. Theiler

Rec'd from A. Theiler

Larvae raised in Cambridge.
 Larvae hatched 11.VI.1908 lived
 unfed in bottle 11.XII.1908, all
 found dead 2.XII.1909
 a) ditto (gorged) and some N's
 fed on rabbit in Cambridge found
 dead and shrivelled 2.XII.1909.
 (see "biological notes")

Collection in two vials

N 616

N 616 MISSING

Haemaphysalis leachi unfed N's

Larvae from Cape Colony, S. Africa

Sent by Mr. C. P. Lounsbury

Unfed N's raised in Cambridge
 from larvae (supposedly infected
 strain). Found dead and shrivelled;
 bottled 2.II.1909.

ORIGINAL DETERMINATIONCURRENT STATUS

N	617	N	617
		RML	109310
	<u>Ceratixodes putus</u> 1 ♀ (gorged) dilapidated		1 ♀ <u>Ixodes uriae</u>
	Wild duck		Wild duck
	No other data		No other data
	[R177]		Cited: Nuttall and Warburton (1911: 261).
N	618	N	618
		RML	109311
	<u>Ceratixodes putus</u> 1 ♂, 1 ♀, 2 N's		1 ♂, 1 ♀, 2 N <u>Ixodes uriae</u>
	British		British
	E. G. Wheler		E. G. Wheler
	[R220]		
N	619	N	619
		RML	109312
	<u>Ixodes tenuirostris</u> 1 ♂, 2 ♀		2 ♂, 2 ♀ <u>Ixodes trianguliceps</u>
	<u>Hypudaeus glareolus</u>		<u>Clethrionomys glareolus</u>
	Campfer		Campfer (46.28 N, 09.48 E), Switzerland
			7.VII.1904
	K. Jordan		K. Jordan
	[R147]		Date taken from vial label. Cited: Nuttall and Warburton (1911: 248).

ORIGINAL DETERMINATIONCURRENT STATUS

N 620
Ixodes tenuirostris 1 ♀
Mus minutus
 (Harvest mouse)
 [R942] mounted on a slide

N 620 MISSING

N 621
Ixodes tenuirostris N's
Sorex vulgaris
 Bevendean, Sussex
 VI.1899
 [R204]

N 621
 RML 109313
 1 N Ixodes trianguliceps
Sorex araneus
 Bevendean (50.51 N, 00.05 E),
 Sussex, England
 VI.1899

Nuttall and Warburton (1911: 248)
 indicated that more than one
 nymph was in the collection.
 Cited: Thompson (1968: 146).

The capitulum is missing on
 the nymph.

N 622
Ixodes tenuirostris ♀
Arvicola amphibius
 Reservoir ...
 6.IV.1892
 [R166]

N 622
 RML 109314
 1 ♀ Ixodes trianguliceps
Arvicola terrestris
 Reservoir ...
 England
 6.IV.1892
 Nuttall & Warburton (1911: 248)
 indicated that the collection was
 from England. Cited: Thompson
 (1968: 146).

ORIGINAL DETERMINATIONCURRENT STATUS

N	623	N	623
		RML	109315
	<u>Ixodes tenuirostris</u> 2 ♀'s		2 ♀ <u>Ixodes trianguliceps</u>
	<u>Arvicola agrestis</u>		<u>Microtus agrestis</u>
	Tring, Herts.		Tring (51.48 N, 00.40 W), Herts., England
	[R197]		Cited: Nuttall and Warburton (1911: 248); Thompson (1968: 146).
N	624	N	624
		RML	109316
	<u>Ixodes tenuirostris</u> 1 ♀		1 ♀ <u>Ixodes trianguliceps</u>
	<u>Arvicola arvalis</u>		<u>Microtus arvalis</u>
	Campfer		Campfer (46.28 N, 09.48 E), Switzerland
	20.VII.1904		20.VII.1904
	K. Jordan		K. Jordan
	[R149]		Cited: Nuttall and Warburton (1911: 248).
N	625	N	625
		RML	109317
	<u>Ixodes tenuirostris</u> 3 ♀'s		3 ♀ <u>Ixodes trianguliceps</u>
	<u>Arvicola arvalis</u>		<u>Microtus arvalis</u>
	Campfer		Campfer (46.28 N, 09.48 E), Switzerland
	5.VII.1904		5.VII.1904
	K. Jordan		K. Jordan
	[R148]		Cited: Nuttall and Warburton (1911: 248).

ORIGINAL DETERMINATIONCURRENT STATUS

N 626

Ixodes scapularis ♂'s, ♀'sCariacus virginianusCraven Co., N. Carolina,
U.S. America

13.XI.1907

[R226] [det. C. Warburton 1909.
Found with N666].

N 626

RML 109318

4 ♂, 4 ♀ Ixodes scapularisOdocoileus virginianusCraven Co. (35.07 N, 77.03 W),
North Carolina, USA

13.XI.1897

Nuttall and Warburton (1911: 158)
gave the date of collection as
XI.1897. The date on the vial
label is 13.XI.1897.

N 627

Ixodes tenuirostris 1 ♀

British

From Mr. E. G. Wheler

N 627

RML 109319

1 ♀ Ixodes trianguliceps

British

From Mr. E. G. Wheler

ORIGINAL DETERMINATIONCURRENT STATUS

N	628	N	628	MISSING
	<u>Ixodes ricinus</u> ♀ and N			
	No other data			
	[R165]			
N	629	N	629	MISSING
	<u>Ixodes ricinus</u> 4 ♀'s			
	Stag			
	No other data			
	[R233]			
N	630	N	630	MISSING
	<u>Ixodes ricinus</u> 3 N's			
	<u>Sciurus vulgaris</u>			
	Timmer, Ireland			
	17.IV.1901			
	[R217]			
N	631	N	631	MISSING
	<u>Ixodes ricinus</u> 4 ♀'s			
	<u>Erinaceus europaeus</u>			
	Belgium			
	E. A. Boulanger			
	[R223]			

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	632	N	632 MISSING
	<u>Ixodes ricinus</u> 2 ♀'s		
	Fox		
	No other data		
	[R173]		
N	633	N	633
		RML	109320
	<u>Amblyomma</u> sp. N's		8 N <u>Amblyomma</u> sp.
	<u>Macropus</u>		<u>Macropus</u> sp.
	No other data		W. Australia
			28.VII.1900
	[R169]		Nuttall 644 also bears Rothschild no. R169 and gives the locality and date for this collection.

Note on distribution of certain species of ticks in Africa from information given by Mr. Harold H. King who brought in the specimens to examine. He stated that:

Rhipicephalus evertsi occurs on elephant at Taufikia
(Upper White Nile Province and at Tonga (U.W. Nile).
Haemaphysalis leachi occurs on hedgehogs and dogs at Taufikia.
(v. supra) Roseires (Blue Nile Province) and at Khartoum,
Aponomma laeve occurs on lizards at Taufikia (v. supra)
Prob? Amblyomma variegatum N's on lizard, Taufikia.

ORIGINAL DETERMINATIONCURRENT STATUS

N 634

N 634

RML 109321

Ixodes percavatus

2 ♀, 2 N Ixodes rothschildi
 Lectotype and paralectotypes of
I. percavatus rothschildi

Puffin

Fratercula arctica

Wrongly labelled. Ix putus
 "(Pocock)" on back of label;
 no particulars. (Sent to
 Neumann who confirmed the
 identification II.1909).

[R159]

Nuttall & Warburton (1911: 221),
 original description of Ixodes
percavatus rothschildi. Zumpt
 (1952: 17) gave specific rank to
Ixodes rothschildi. Arthur (1953:
 222-226) independently gave specif-
 ic rank to I. rothschildi. Arthur
 (1963: 134) referred to 2 ♀, 3 N
 in the type lot. There are now
 (IX.1977) only 2 ♀, 2 N present.
 Lectotype designated: Keirans &
 Brewster (1981: 167, 168).

N 635

N 635

RML 88419 (LECTOTYPE)
 88420 (PARALECTOTYPES)

Haemaphysalis doenitzi ♂'s, ♀'s, N's
 TYPES

1 ♀ Haemaphysalis doenitzi Lectotype
 2 ♀ Haemaphysalis doenitzi Paralecto-
 types

Water hen

Water hen

St. Johns Island, Singapore

Sakijang Bendera, Pulau (01.13 N,
 103.51 E), Singapore

Rec'd 8.II.1909

Rec'd 8.II.1909

Rec'd from Dr. A. R. Wellington

Rec'd from Dr. A. R. Wellington

Vulva of one ♀ is on a slide. War-
 burton & Nuttall (1909: 64) original
 description, stated 4 ♂, 3 ♀ in the
 type series. This total again stated
 by Nuttall & Warburton (1915: 483);
 Hoogstraal & Wassef (1973: 1102)
 selected the lectotype.

ORIGINAL DETERMINATIONCURRENT STATUS

N 636

N 636

RML 109322

Aponomma exornatum6 ♂, 5 N Aponomma exornatum

Water lizard

Water lizard

Entebbe, Uganda, B. E. Africa

Entebbe (00.04 N, 32.28 E),
Uganda

Received 8.II.1909

Received 8.II.1909

Dr. H. Bayon

Dr. H. Bayon

N 637

N 637

RML 109323

Ixodes bicornis11 ♀ Ixodes boliviensisFelis concolorFelis concolor

[America]

[America]

[R213]

Nuttall and Warburton (1911: 187)
indicated only one ♀ in the collection.

N 638

N 638

RML 109324

Ixodes loricatus ♂ and ♀1 ♂, 1 ♀ Ixodes loricatusDidelphisDidelphis sp.

Sapucay

Probably Sapucaí (25.19 S, 56.55 W),
Paraguay [see also Nuttall 1391].

Foster

Foster

[R276]

Cited: Nuttall and Warburton (1911:
269); Cooley and Kohls (1945: 190).

ORIGINAL DETERMINATIONCURRENT STATUS

N	639	N	639
		RML	109326
	<u>Ixodes loricatus</u>		1 ♂ <u>Ixodes loricatus</u>
	"Piquoti"		"Piquoti"
	No other data		No other data
	[R256]		[R256]
N	640	N	640
		RML	109327
	<u>Ixodes loricatus</u>		2 ♂, 2 ♀ <u>Ixodes loricatus</u>
	<u>Ateles melanochir</u>		<u>Ateles g. geoffroyi</u>
	Frontera, Tabasco, Mexico		Frontera (18.32 N, 92.38 W), Tabasco, Mexico
	[R241]		
	Compared with Neumann's types at Toulouse, 1910; agrees fully but Nu's type larger.		Cited: Nuttall and Warburton (1911: 269); Cooley and Kohls (1945: 190).
N	641	N	641
		RML	109328
	<u>Ixodes loricatus</u>		2 ♂, 1 L <u>Ixodes loricatus</u>
	<u>Didelphis aurita</u>		<u>Didelphis marsupialis</u>
	Brazil		Brazil
	24.XI.1901		24.XI.1901
	[R161]		Cited: Nuttall and Warburton (1911: 269); Cooley and Kohls (1945: 190).

ORIGINAL DETERMINATIONCURRENT STATUS

N 642

N 642

RML 109329

Ixodes vestitus 1 ♀, 1 N, 6 L1 ♀, 5 N Ixodes vestitusDiemenia superciliosaDiemenia textilisHerdman's Lake, near Perth,
W. AustraliaHerdman's Lake near Perth (31.56 S,
115.15 E), Australia

B. H. Woodward

B. H. Woodward

[R165]

Nuttall 628 also bears Rothschild
no. R165; Nuttall & Warburton
(1911: 255) indicated larvae as
did the catalogue entry; Taylor
(1946: 59, 60) repeated Nuttall
& Warburton's description and
figures. See also Roberts (1960:
451, 452).

N 643

N 643

RML 109330

Ixodes holocyclus 2 N's2 N Ixodes holocyclus

Perth, W. Australia

Perth (31.56 S, 115.15 E),
Australia

Woodward

B. H. Woodward

[R265]

Cited: Nuttall & Warburton (1911:
238).

ORIGINAL DESCRIPTIONCURRENT STATUS

N 644

N 644 MISSING

Ixodes holocyclus 2 ♀Macropus sp.

W. Australia

28.VII.1900

[R169]

N 645

N 645

Ixodes australiensis 3 ♀

RML 22284

Tame dog

3 ♀ Ixodes australiensis

Cranbrook, West Australia

Canis familiaris

1.IV.1900

Cranbrook (34.18 S, 117.32 E),
Australia

J. T. Young

1.IV.1900

J. T. Young

[R275]

Cited Nuttall and Warburton (1911:
252); Taylor (1946: 57, 58)
repeated Nuttall and Warburton's
descriptions and figures.This collection was seen by
Dr. R. A. Cooley in 1946.

ORIGINAL DETERMINATIONCURRENT STATUS

N 646

Ixodes australiensisBettongia lescuri

Kogonup (?), W. Australia

4.XI.1900

[R210]

N 646

RML 109331

8 ♀ Ixodes australiensisBettongia lesueuriKojonup (33.50 S, 117.09 E),
Australia

4.XI.1900

Cited: Nuttall and Warburton (1911: 252); Taylor (1946: 57, 58) repeated Nuttall and Warburton's description and figures. Roberts (1960: 440); Roberts (1970: 40) gave the correct spelling of the collecting locality.

N 647

Ixodes loricatus var spinosus
n. var., Nuttall, 1910 3 ♀

Large opossum

Frontera, Tabasco, Mexico

May

[R248] Found with 648
(Note long spine on coxa I)

N 647

RML 109332

2 ♀ Ixodes luciae
Lectotype and paralectotype of
Ixodes loricatus spinosus

Didelphis sp.Frontera (18.32 N, 92.38 W),
Tabasco, Mexico

May

Nuttall (1910: 411), original description; Nuttall and Warburton (1911: 269) repeated original description and figures. Lectotype designated: Keirans and Brewster (1981: 167).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	648	N	648
		RML	109333
<u>Amblyomma</u> ? <u>cajennense</u> N's and larvae		16 N <u>Amblyomma</u> <u>cajennense</u>	
Large opossum		<u>Didelphis</u> sp.	
Frontera, Tabasco, Mexico		Frontera (18.32 N, 92.38 W), Tabasco, Mexico	
May		V.1901	
[R248] Found with Nuttall 647		Cited: Robinson (1926: 53). Date on vial label is May, 1901	
N	649	N	649
		RML	109334
<u>Ixodes</u> <u>vespertilionis</u> N		1 N <u>Ixodes</u> <u>vespertilionis</u>	
<u>Vespertilio</u> <u>tricolor</u>		<u>Myotis</u> <u>tricolor</u>	
Kei Road, Kingwilliamstown, S. Australia (The S. Australia crossed out and S. Africa inserted)		Kei Road, King William's Town (32.51 S, 27.22 E) South Africa	
Purchased of Capt. H. Trevelyan		Purchased of Capt. H. Trevelyan	
[R185]		Cited: Nuttall and Warburton (1911: 277; Taylor (1946: 41) considered <u>I. vespertilionis</u> , "very doubtfully Australian" and "original specimen is unfortunately lost". Hoogstraal (1956a: 569, 570) considered this collection to be of South African origin.	

ORIGINAL DETERMINATIONCURRENT STATUS

N 650

Ixodes fecialis n. sp.
W & N, 1909 1 ♂ TYPE

Dasyurus geoffroyi

Cranbook, West Australia

5.III.1900

[R203]

N 650

RML 109335

1 ♀ Ixodes fecialis Holotype

Dasyurus geoffroyi

Cranbrook (34.18 S, 117.32 E),
Australia

5.III.1900

Warburton and Nuttall (1909: 58),
original description. Nuttall and
Warburton (1911: 248) repeated the
original description and figures as
did Taylor (1946: 56); Roberts (1960:
445) incorrectly gave the collection
date as March 1910.

N 651

Rhipicephalus evertsi ♂'s, ♀'s

Sent from Cape Colony, S. Africa

Lot a) sent 9.XII.1908

Lot b) sent 20.I.1909

Sent by Mr. C. P. Lounsbury
for our experiments

(infected adults; East Coast
Fever)

[5 slides ♂'s dissected, in
balsam]

N 651 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 652

N 652

RML 109336

Ixodes unicavatus 2 ♀1 ♀, 1 N Ixodes unicavatus

Shag

Phalacrocorax aristotelis

Plymouth, England

Plymouth (50.23 N, 04.10 W),
England

IX.1897

IX.1897

[R168]

Nuttall and Warburton (1911: 266)
indicated that the collection
consisted of only one nymph.
Arthur (1963: 126) repeated this
error.

N 653

N 653

RML 109337

Amblyomma diminutivum ?1 ♀
(died, now in spirit)
[L.E.R. det. X.1914]1 ♀ Amblyomma dissimileBoa constrictorBoa constrictor

Probably Brazil

Probably Brazil

Bought on 11.II.1909

Bought on 11.II.1909

A pet snake belonging to
Mr. W. A. Harding, of Histon,
Cambs., who bought it on 11.II.1909.
The snake is probably from Brazil.
It has been at least one year in
England & since it was received from
the dealer, Mr. Harding has kept it
in a box in which other snakes had
previously been kept, or in which
other snakes were kept in companion-
ship with the boa. These other snakes
were from N. America, Africa & Australia.
The tick was only noticed in January,
& Harding thinks it could not have been
there before because the snake is often
handled, & it would have been seen.

Robinson (1926: 191) figured
this specimen.

ORIGINAL DETERMINATIONCURRENT STATUS

N	654	N	654	MISSING
	<u>Rhipicephalus sanguineus</u>			
	Dog			
	Accra, W. Africa			
	VI.1908			
	Dr. W. M. Graham			
	Curious malformation: 2 anuses, 3 spiracles, etc. (See " <u>Parasitology</u> " 1909, II, p. 75) illustrated.			The reference is to Warburton & Nuttall (1909: 75).
N	655	N	655	
		RHL	109338	
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s, N's			20 ♂, 5 ♀ <u>Hyalomma anatolicum excavatum</u>
	Camels			<u>Camelus dromedarius</u>
	Biskra, S. Algeria			Biskra (34.51 N, 05.44 E), Algeria
	Sent 12.II.1909			Sent 12.II.1909
	Sent by Mr. Ernest Hartert from Zoological Museum Tring, Herts.			Sent by Mr. Ernst Hartert from Zoological Museum, Tring, Herts.
	1 ♂, 1 ♀ to Royal College of Surgeons, London 20.XII.1909			

ORIGINAL DETERMINATIONCURRENT STATUS

N 656
Ixodes ricinus 2 larvae
Mustela erminea
 Lyndhurst
 25.VII.1900
 G. Tate
 [R205]

N 656 MISSING

N 657
Ornithodoros savignyi
 "Camel ticks"
 Aden, India
 Received 15.II.1909
 Dr. Alex MacRae
 Presented by Dr. J. H. Ashworth
 of Zoological Dept., The
 University, Edinburgh

Specimens sent to Col. A. Alcock FRS
 London School Tropical Medicine,
 Albert Dock 26.I.1910 and to W. F.
 Cooper 22.I.1910.

N 657
 RML 109339
 4 ♂, 12 ♀, 40 N Ornithodoros savignyi
Camelus dromedarius
 Peoples Democratic Republic of Yemen
 Received 15.II.1909
 Dr. Alex MacRae
 In Nuttall's notebook on ticks sent
 to various individuals and institutions
 the date is given as "sent 15.IX.1909"

ORIGINAL DETERMINATIONCURRENT STATUS

N 658

N 658 MISSING

Argas persicus

Ivory Coast, Africa

Sent XII.1908 alive

Dr. Bouet

Sent by Dr. Marchoux (Paris)

N 659

N 659 MISSING

Argas persicus

Tunis, Africa

Sent XII.1908, alive

Dr. Nicolle

Sent by Dr. Marchoux (Paris)

660-665. Ticks collected by Dr. J. M. Dalziel at Katagum, N. Nigeria 1907.

N 660

N 660

RML 109340

Rhipicephalus sanguineus2 ♂, 2 ♀ Rhipicephalus sanguineus

Dogs, hares, etc.

Dogs, hares, etc.

Katagum, N. Nigeria

Katagum (12.50 N, 10.51 E),
Nigeria

9.IX.1907

9.IX.1907

Dr. J. M. Dalziel

Dr. J. M. Dalziel

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	661	N	661
		RML	109341
<u>Aponomma exornatum</u> 2 ♂, 2 ♀		2 ♂, 1 ♀ <u>Aponomma flavomaculatum</u>	
<u>Varanus exanthematicus</u>		<u>Varanus exanthematicus</u>	
Katagum, N. Nigeria		Katagum (12.50 N, 10.51 E), Nigeria	
23.VIII.1907		23.VIII.1907	
Dr. J. M. Dalziel		Dr. J. M. Dalziel	
N	662	N	662
		RML	109342
<u>Rhipicephalus sanguineus</u> N's		5 N, 2 L <u>Rhipicephalus sanguineus</u>	
Dogs		Dogs	
Katagum, N. Nigeria		Katagum (12.50 N, 10.51 E), Nigeria	
20.VIII.1907		20.VIII.1907	
Dr. J. M. Dalziel		Dr. J. M. Dalziel	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	663	N	663
		RML	109343
	<u>Rhipicephalus simus</u> 1♂		1♂ <u>Rhipicephalus muhsamae</u>
	Dog		Dog
	Katagum, N. Nigeria		Katagum (12.50 N, 10.51 E), Nigeria
	30.VI.1907		30.VI.1907
	Dr. J. M. Dalziel		Dr. J. M. Dalziel
N	664	N	664
		RML	109344
	<u>Amblyomma variegatum</u> 3♂ , 1 ♀		3♂ , 1♀ <u>Amblyomma variegatum</u>
	Cattle		Cattle
	Katagum, N. Nigeria		Katagum (12.50 N, 10.51 E), Nigeria
	8.VI.1907		8.VI.1907
	Dr. J. M. Dalziel		Dr. J. M. Dalziel
N	665	N	665
		RML	109345
	<u>Hyalomma aegyptium</u> 2♀		2♀ <u>Hyalomma truncatum</u>
	Cattle - goats - sheep		Cattle - goats - sheep
	Katagum, N. Nigeria		Katagum (12.50 N, 10.51 E), Nigeria
	6.VI.1907		6.VI.1907
	Dr. J. M. Dalziel		Dr. J. M. Dalziel

Note: Nos. 660-665 all collected by Dr. J. M. Dalziel were sent for determination, with other specimens, by J. H. Ashworth, Zoological Dept., The University, Edinburgh, 17.II.1909.

Note on distribution of ticks (none kept, returned to Dr. Ashworth)
Hyalomma aegyptium 1 ♂, 4 ♀'s off camel, Sheikh Othman, Aden, collected
 1906, by Dr. Alex MacRae.

ORIGINAL DETERMINATION

CURRENT STATUS

N 666

Dermacentor nigrolineatus ♀

Cariacus virginianus

Found with N 626 q.v. for
 details

13.X.1897

[R226] C.W. det. 1917

N 666

RML 109346

1 ♀ Dermacentor albipictus

Odocoileus virginianus

Craven Co. (35.07 N, 77.03 W),
 North Carolina, U.S.A.

13.X.1897

N 667

Ixodes unicavatus ♀'s, N's

Phalacrocorax graculus

Cromarty

10.III.1898

W. Roy

N 667

RML 109347

3 ♀, 10 N, 3 L Ixodes unicavatus

Phalacrocorax aristotelis

Cromarty (57.40 N, 04.02 W),
 Scotland

10.III.1898

W. Roy

Cited: Nuttall & Warburton (1911:
 266); Arthur (1963: 126); Thompson
 (1957: 215).

Note in vial "3 ♀ removed".

The 3 larvae are mounted on slides.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	668	N	668
		RML	109348
	<u>Ixodes hexagonus</u> ♀'s, N's		2 ♀, 9 N <u>Ixodes hexagonus</u>
	<u>Mustela vulgaris</u>		<u>Mustela nivalis</u>
	Tring, Herts.		Tring (51.47 N, 00.39 W), Herts., England
	Received 10.III.1909		Received 10.III.1909
	F. J. Cox		F. J. Cox
			Cited: Nuttall & Warburton (1911: 182).
N	669	N	669
		RML	109349
	<u>Haemaphysalis humerosa</u> (n. sp. Warb. & Nutt., 1909)		2 ♂, 1 ♀, 1 N <u>Haemaphysalis humerosa</u> Lectotype and paralectotypes
	<u>Permeles macrura</u>		<u>Isoodon macrourus</u>
	Barrow Island, N.W. Australia		Barrow Island (20.48 S, 115.23 E). Australia
	[R178] 1 ♂ to Dr. L.O. Howard U.S.D.A. Washington D.C. 21.V.1909		Warburton and Nuttall (1909: 60), original description. Nuttall and Warburton (1915: 496) and Taylor (1946: 82) repeated original de- scription and figures. Roberts (1963: 39) discussed the type series and the note by Nuttall that one specimen was missing 20.X.1934. Vulva of ♀ is mounted on a slide. Lectotype designated: Keirans & Brewster (1981: 161).

ORIGINAL DETERMINATIONCURRENT STATUS

N 670

N 670

RML 71004

Haemaphysalis elongata1♂ Haemaphysalis elongata
4♂ , 2 ♀ Haemaphysalis tiptoniCentetes ecaudatusTenerec ecaudatus

Madagascar

Democratic Republic of Madagascar

[R172]

Cited: Nuttall and Warburton (1915: 500); Hoogstraal (1953: 59) for H. elongata and p. 64 discussed the two species present in Nuttall and Warburton's (1915) figures and descriptions; Hoogstraal et al. (1974:481)Vulva of both ♀ H. tiptoni are mounted on slides.

671-677. Ticks received from Dr. H. Hearsey, Principal Medical Officer, Nyasaland, Africa 28.III.1909.

N 671

N 671

RML 109350

Rhipicephalus appendiculatus1♂ , 1♀ Rhipicephalus appendiculatus

Nyala antelope

Tragelaphus angasi

Chiromo, Ruo District, Africa

Chiromo (16.33 S, 35.08 E),
Ruo District, Malawi

20.II.1909

20.II.1909

Received from Dr. H. Hearsey

Received from Dr. H. Hearsey

ORIGINAL DETERMINATIONCURRENT STATUS

N 672 a, b

N 672b

RML 109351

(a) Amblyomma variegatum
(b) Boophilus decoloratus(a) MISSING
(b) 1 ♂, 7 ♀ Boophilus microplus

Cattle

Cattle

Zomba, Nyasaland, Africa

Zomba (15.23 S, 35.20 E), Malawi

1908

1908

Received from Dr. H. Hearsey

Received from Dr. H. Hearsey

N 673a

N 673a MISSING

Amblyomma variegatum 2 ♀

Sable antelope

Zomba, Nyasaland, Africa

1908

Received from Dr. H. Hearsey

N 674

N 674 MISSING

Ixodes hexagonus 3 ♀'sMyopotamus coypu? locality, host a rodent from
S. AmericaPresented by Hon. N. C. Rothschild
(R922-924)(see record of 2 other ♀'s in Ticks
Part II, p. 183) G.H.F.N. det. II.1915

ORIGINAL DETERMINATION		CURRENT STATUS	
N	675 a, b	N	675a, b MISSING
	(a) <u>Rhipicephalus appendiculatus</u>		
	(b) <u>Melophagi</u>		
	Bush buck		
	Near Runyinya River, Nyasaland, Africa		
	1.XI.1908		
	Received from D. H. Hearsey		
N	676	N	676
		RML	109352
	<u>Boophilus decoloratus</u>		11♀ <u>Boophilus decoloratus</u> 1 vial of eggs in separate jar
	Cattle		Cattle
	Chintechi, West Nyasa District, Nyasaland, Africa		Chintechi (11.50 S, 34.10 E), Malawi
	X.1908		X.1908
N	677a, b	N	677a
		RML	109353
	(a) <u>Boophilus decoloratus</u>		(a) 5 ♀ <u>Boophilus decoloratus</u>
	(b) <u>Rhipicephalus appendiculatus</u>		(b) MISSING
	Zebra		<u>Equus burchelli</u>
	Near Dwangwa River, Marimba District, Nyasaland, Africa		Near Dwangwa River (12.31 S, 34.12 E), Malawi
	1908		1908
	Received from Dr. H. Hearsey		Received from Dr. H. Hearsey

ORIGINAL DETERMINATIONCURRENT STATUS

N 678

N 678

RML 109354

Ixodes angustus 1♀
(fide Banks)1♀ Ixodes angustusTamus townsendiEutamias townsendi

Chilliwack, B.C.

Chilliwack (49.10 N, 121.57 W),
British Columbia, Canada

22.IV.1900

24.IV.1900

Allan Brooks

Allan Brooks

Cited: Nuttall and Warburton (1911:
198).

N 679

N 679

RML 109355

Haemaphysalis hystrix2 ♂ Haemaphysalis semermis

Federated Malay States

Malaysia

Received 29.III.1909

Received 29.III.1909

H. C. Pratt

H. C. Pratt

2 ♂ to C. Strickland, Malaya

Hoogstraal et al. (1965b) gave the
collection date as 29.III.1903.

ORIGINAL DETERMINATIONCURRENT STATUS

680-682. Ticks received from Dr. H. Bayon, Medical Superintendent,
Bussu, Uganda, Africa; posted 6.III.1909.

N 680a-d

N 680a, b

RML 109356

- (a) Boophilus sp. N's
 (b) Amblyomma variegatum
 (c) Rhipicephalus appendiculatus
 ♂, ♀, N
 (d) Amblyomma variegatum N's

- (a) 18 N Boophilus sp.
 (b) 14♂, 11♀ Rhipicephalus pravus
 (c) MISSING
 (d) MISSING

Cattle

Cattle

Bussu

Probably Bussi Island (00.02 N,
32.20 E) Uganda

1909

1909

Received from Dr. H. Bayon

Received from Dr. H. Bayon

N 681, a

N 681

RML 109357

- Amblyomma nuttalli ♂'s, 1♀.
 (a) Aponomma laeve

- 7♂, 1♀ Amblyomma nuttalli
 (a) 1♂ Aponomma latum

Tortoise

Tortoise

Bussu, Uganda Protectorate

Probably Bussi Island (00.02 N,
32.20 E), Uganda

Sent 6.III.1909

Sent 6.III.1909

Sent by Dr. H. Bayon

Sent by Dr. H. Bayon

Robinson (1926: 91, 93) figured
a ♂ and ♀ from this collection.
Cited: Theiler and Salisbury (1959:
115).

ORIGINAL DETERMINATIONCURRENT STATUS

N 682

N 682 MISSING

Haemaphysalis leachi ♂s, ♀'s

Dog

Bussu - Busoga, Uganda Protectorate

Sent 6.III.1909

Sent by Dr. H. Bayon

Collection of the London School of Tropical Medicine (683-693)

N 683

N 683 MISSING

Haemaphysalis bispinosa

Dog

Calcutta, India

C.R.M. Green

N 684

N 684 MISSING

Haemaphysalis spiniceps n. sp.

Malay Peninsula

H. C. Pratt

N 685

N 685 MISSING

Haemaphysalis hystrix n. sp.

Malay Peninsula

H. C. Pratt

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	686	N	686 MISSING
	<u>Haemaphysalis koningsbergeri</u>		
	<u>Paradoxurus</u>		
	Malay States		
	A. T. Stanton		
	Also contained two specimens (4a)		
	<u>H. dentipalpis</u> n. sp. and one (4b)		
	<u>H. vidua</u> n. sp.		
N	687	N	687 MISSING
	<u>Haemaphysalis hystrix</u> ♀		
	Wild boar		
	Malay States		
	A. T. Stanton		
N	688	N	688 MISSING
	<u>Haemaphysalis koningsbergeri</u>		
	<u>Viverra</u> sp.		
	Malay States		
	A. T. Stanton		
N	689	N	689 MISSING
	<u>Haemaphysalis papuana</u>		
	Sarawak, Borneo		
	A. R. Wellington		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	690	N	690 MISSING
<u>Haemaphysalis leachi</u>			
Uganda, Africa			
H. Bayon			
N	691	N	691 MISSING
<u>Haemaphysalis leachi</u>			
Dog			
Uganda, Africa			
H. Bayon			
N	692	N	692 MISSING
<u>Haemaphysalis leachi</u>			
Ferret			
Uganda, Africa			
H. Bayon			

ORIGINAL DETERMINATIONCURRENT STATUS

N	693, a	N	693a
		RML	22234
	(693) <u>Haemaphysalis koningsbergeri</u> (a) <u>Haemaphysalis dentipalpis</u> n. sp. (which we have kept)		(693) MISSING (a) 2 ♂ <u>Haemaphysalis asiaticus</u> Lectotype and syntype of <u>H. dentipalpis</u>
	<u>Felis chaus</u>		<u>Felis chaus</u> (This cat does not occur in Malaysia)
	Malay States		Malaysia
	A. T. Stanton		A. T. Stanton
			Warburton & Nuttall (1909: 67), original description. Nuttall & Warburton (1915: 505) repeated original description and figures. Hoogstraal and Trapido (1966: 1176) selected lectotype.
N	694	N	694
		RML	109358
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		143 ♂, 41 ♀, 1 N <u>Amblyomma variegatum</u>
	Mpumu, Chagwe, Uganda		Mpumu (00.12 N, 32.50 E), Uganda
	Rec'd 30.IV.1909		Rec'd 30.IV.1909
	Sent by Sir David Bruce FRS		Sent by Sir David Bruce FRS
	Received in formalin, washed in water and placed in spirit (70%), large bottle. The original label read: " <u>Amblyomma variegatum</u> 394"		
	12		
	1 ♂, 1 ♀ to Dr. H. de B. Aragão 23.I.1910; 1 ♂, 1 ♀ to Prof. G. H. Carpenter, Royal College of Sciences, Dublin 9.I.1910; 1 ♂, 1 ♀ to Dr. G. S. Graham-Smith, Medical Schools, Cambridge 19.I.1910; 1 ♂, 1 ♀ to E. E. Green, Government Entomologist, Ceylon 19.I.1910; 1 ♂, 1 ♀ to Dschunkowsky, Transcaucasus 19.I.1910; 1 ♂, 1 ♀ to Dr. Edmund Sergent, Algeria, N. Africa 19.IV.1910; 1 ♂, 1 ♀ to Dr. S. Hadwen, British Columbia, Canada 10.X.1913; 1 ♂, 1 ♀ to Dr. de Blieck, Java 22.I.1915.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 695

N 695 MISSING

Haemaphysalis leachi 2♂'s, 1♀

Mpumu, Chagwe, Uganda

Received 30.IV.1909

Sent by Sir David Bruce

In a tube bearing number "10",
returned to Bruce. Two♂'s show
great contrast in size.

696-723. Collection of American ticks (696-723): received 6.V.1909,
having been sent by Dr. L. O. Howard (26.IV.1909), Chief of
the Division of Entomology, Dept. of Agriculture, Washington,
D.C., U.S.A. Mr. N. Banks is responsible for the labels on
the 28 tubes. I (G.H.F.N.) have stated the numbers and sexes
of each species.

N 696

N 696

RML 109359

Dermacentor variabilis 2♂, 2♀2♀ Dermacentor variabilis

Enterprise, Florida, U.S.A.

Enterprise (28.30 N, 81.15 W)
Florida, U.S.A.

Sent 26.IV.1909

Sent 26.IV.1909

From Dr. L. O. Howard; gift of U.S.D.A.

From Dr. L. O. Howard; gift of U.S.D.A.

1♀ to Dr. E. Pavlovsky, Leningrad
9.X.1925

Leland Ossian Howard (1857-1950),
Chief, Division of Entomology, U.S.D.A.
1894-1927 and one of America's eminent
entomologists. His life and work have
recently been reviewed by Russell (1978).

ORIGINAL DETERMINATIONCURRENT STATUS

N 697

N 697

RML 109360

Dermacentor occidentalis 2♂, 2♀3♂, 1♀ Dermacentor occidentalisBarr's Ranch, Humboldt Co.,
California, U.S.A.Barr's Ranch, Humboldt Co. (40.19 N,
123.55 W), California, U.S.A.

Sent 26.IV.1909

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.From Dr. L. O. Howard; gift of
U.S.D.A.

N 698

N 698

RML 109361

Dermacentor modestus 1♂1♂ Dermacentor andersoni

Prescott, Washington, U.S.A.

Prescott (46.16 N, 118.12 W),
Washington, U.S.A.

Sent 26.IV.1909

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.From Dr. L. O. Howard; gift of
U.S.D.A.

N 699

N 699

RML 109362

Dermacentor parumapertus 1♂, 1♀1♂, 1♀ Dermacentor parumapertus

Lakeside, California, U.S.A.

Lakeside (32.52 N, 116.55 W),
California, U.S.A.

Sent 26.IV.1909

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.From Dr. L. O. Howard; gift of
U.S.D.A.This collection is from the type
locality of D. parumapertus.

ORIGINAL DETERMINATIONCURRENT STATUS

N 700

Dermacentor venustus 2 ♀

Kaslo, British Columbia

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.

N 700

RML 109363

2 ♀ Dermacentor andersoniKaslo (49.55 N, 116.55 W), British
Columbia, Canada

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.Vial label date incorrectly reads
26.IV.1906.

N 701

Dermacentor nitens 1 ♂, 1 ♀

Crescent City, Florida, U.S.A.

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.

N 701

RML 109364

3 ♀ Anocentor nitens (ex Marx coll.)Crescent City (26.26 N, 81.30 W),
Florida, U.S.A.

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.

N 702

Dermacentor albipictus 1 ♂, 1 ♀
(ex coll. Banks)

Pullman, Washington, U.S.A.

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.

N 702

RML 109365

1 ♂, 1 ♀ Dermacentor albipictus
(ex coll. Banks)Pullman (46.44 N, 117.10 W),
Washington, U.S.A.

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.

ORIGINAL DETERMINATIONCURRENT STATUS

N 703

N 703

RML 109366

Dermacentor marginatus 1♂, 1♀
(ex coll. Banks)1♂, 1♀ Dermacentor parumapertus

Albuquerque, New Mexico

Albuquerque (35.05 N, 106.40 W),
New Mexico, U.S.A.

Sent 26.IV.1909

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.From Dr. L. O. Howard; gift of
U.S.D.A.

N 704

N 704

RML 109367

Dermacentor variabilis 1♂, 3♀
(ex coll. Banks)3♀ Dermacentor variabilis
(ex coll. Banks)

Falls Church, Virginia, U.S.A.

Falls Church (38.53 N, 77.11 W),
Virginia, U.S.A.

Sent 26.IV.1909

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.From Dr. L. O. Howard; gift of
U.S.D.A.I believe Nuttall 3505 is also a
portion of this collection.

N 705

N 705

RML 109368

Amblyomma americana 1♂, 2♀1♂, 2♀ Amblyomma americanum

Willow Springs, Missouri, U.S.A.

Willow Springs (36.59 N, 91.58 W)
Missouri, U.S.A.

Sent 26.IV.1909

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.From Dr. L. O. Howard; gift of
U.S.D.A.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	706	N	706 MISSING
<u>Amblyomma cajennense</u> ♂ 's, ♀ 's			
Rocks Resaca, Texas, U.S.A.			
Sent 26.IV.1909			
From Dr. L. O. Howard; gift of U.S.D.A.			
N	707	N	707
		RML	109369
<u>Amblyomma cajennense</u> ♂ 's, ♀ 's		9 ♂, 1 ♀ <u>Amblyomma cajennense</u>	
Jamaica		Jamaica	
Sent 26.IV.1909		Sent 26.IV.1909	
From Dr. L. O. Howard; gift of U.S.D.A.		From Dr. L. O. Howard; gift of U.S.D.A.	
		Cited: Robinson (1926: 53).	
N	708	N	708
		RML	109370
<u>Amblyomma tuberculatum</u> 1 ♂, 1 ♀ (ex coll. Marx)		1 ♂, 1 ♀ <u>Amblyomma tuberculatum</u> (ex coll. Marx)	
Crescent City, Florida, U.S.A.		Crescent City (29.26 N, 81.30 W), Florida, U.S.A.	
Sent 26.IV.1909. Collected 1893-1894.		Sent 26.IV.1909. Collected 1893-1894.	
From Dr. L. O. Howard; gift of U.S.D.A.		From Dr. L. O. Howard; gift of U.S.D.A.	
L. E. Robinson det. 1926		Cited: Robinson (1926: 177).	

ORIGINAL DETERMINATIONCURRENT STATUS

N 709

N 709

RML 109371

Amblyomma dissimile 1 ♂, 1 ♀1♂ , 1 ♀ Amblyomma dissimile

Guatemala

Guatemala

Sent 26.IV.1909

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.From Dr. L. O. Howard; gift of
U.S.D.A.

Cited: Robinson (1926: 167).

N 710

N 710

RML 109372

Amblyomma maculatum 1 ♂, 2 ♀2 ♂, 2 ♀ Amblyomma maculatum

Victoria, Texas, U.S.A.

Victoria (28.48 N, 97.00 W),
Texas, U.S.A.

Sent 26.IV.1909

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.From Dr. L. O. Howard; gift of
U.S.D.A.

Cited: Robinson (1926: 44).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	711	N	711
		RML	59724
	<u>Amblyomma pilosum</u> 1 ♀		1 ♀ <u>Amblyomma macfarlandi</u> Paratype
	Galapagos Islands		Galapagos Islands
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of USDA		From Dr. L. O. Howard; gift of USDA
			Robinson (1926: 159, fig. 74) determined and illustrated this specimen as <u>A. pilosum</u> . Santos Dias (1958: 505) thought this specimen was the holotype of <u>A. pilosum</u> . Keirans et al (1973: 677), original description of <u>A. macfarlandi</u> .
N	712	N	712
		RML	109373
	<u>Boophilus australis</u> 4 ♀		1 ♂, 3 ♀ <u>Boophilus microplus</u>
	New South Wales, Australia		New South Wales, Australia
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of USDA		From Dr. L. O. Howard; gift of USDA
	2 ♀ to C. Strickland, Malaya		
N	713	N	713 MISSING
	<u>Boophilus annulatus</u> 2 ♂, 5 ♀		
	Texas, USA		
	Sent 26.IV.1909		
	From Dr. L.O. Howard; gift of USDA		

ORIGINAL DETERMINATIONCURRENT STATUS

N 714

Ceratixodes putus 1 ♀

Behring Island

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

N 714

RML 109374

1 ♀ Ixodes uriaeBeringa, Ostrov (55.00 N,
166.15 W), USSR

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

Cited: Nuttall & Warburton (1911;
261)..

N 715

Ixodes angustus 2 ♀

Glacier Bay, Alaska

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

N 715

RML 109375

2 ♀ Ixodes angustusGlacier Bay (58.45 N, 136.30 W),
Alaska, USA

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

Cited: Nuttall & Warburton (1911:
198).

N 716

Ixodes kingi 1 ♀

Death Valley, California

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

N 716

RML 109376

1 ♀ Ixodes kingiDeath Valley (36.30 N, 117.00 W),
California, USA

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

Determination changed from I.
pratti to I. kingi by G.H.F.N.
26.VII.1915. Cited and figured as
I. pratti by Nuttall & Warburton
(1911: 174); Nuttall (1916: 335).

ORIGINAL DETERMINATIONCURRENT STATUS

N 717

Ixodes cookei 2 ♀

Iowa, USA

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

N 717

RML 109377

2 ♀ Ixodes cookei

Iowa, USA

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

Cited: Nuttall & Warburton (1911: 184) as a variety of I. hexagonus.

N 718

Ixodes scapularis 4 ♀

Miami, Florida, USA

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

N 718

RML 109378

4 ♀ Ixodes scapularis

Miami (25.46 N, 80.12 W), Florida, USA

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

Cited and figured by Nuttall & Warburton (1911: 157) as a variety of I. ricinus.

N 719

Haemaphysalis leporis-palustris
1 ♂, 1 ♀

Victoria, Texas, USA

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

N 719

RML 109379

1 ♂, 1 ♀ Haemaphysalis leporispalustris

Victoria (28.48 N, 97.00 W), Texas, USA

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

Figured by Nuttall & Warburton (1915: 389).

ORIGINAL DETERMINATIONCURRENT STATUS

N 720

N 720

RML 109380

Rhipicephalus texanus 2 ♂, 1 ♀2 ♂, 1 ♀ Rhipicephalus sanguineus

Victoria, Texas

Victoria (28.48 N, 97.00 W),
Texas, USA

Sent 26.IV.1909

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

From Dr. L. O. Howard; gift of USDA

The RML collection contains 1 ♂,
2 ♀ COTYPES of Rhipicephalus
texanus (RML 56742) collected from
a dog, Victoria, Texas, 16.X.1906
by J. D. Mitchell. Nuttall 720 may
possibly be part of that type series.
See Banks (1908: 35).

N 721

N 721 MISSING

Argas miniatus

Miami, Florida, USA

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

N 722

N 722 MISSING

Ornithodoros megnini 4 specimens

Mineral Springs, New Mexico

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

ORIGINAL DETERMINATIONCURRENT STATUS

N 723

N 723

RML 109381

Ornithodoros turicata 5 specimens6 N Ornithodoros turicata

Burnet, Texas, USA

Burnet (30.46 N, 98.14 W),
Texas, USA

Sent 26.IV.1909

Sent 26.IV.1909

From Dr. L. O. Howard; gift of USDA

From Dr. L. O. Howard; gift of USDA

N 724

N 724

RML 109382

Ornithodoros moubata6 ♂, 4 ♀, 20 N Ornithodoros moubata

Dowa Prison

Dowa Prison (13.41 S, 33.59 E),
Malawi

20.III.1909

20.III.1909

Dr. E. H. A. Pask

Dr. E. H. A. Pask

Sent by Dr. H. Hearsey, Principal
Medical Officer, Nyasaland, Africa.
Rec'd. 9.V.1909.

Cited: Merriman (1911: 171).

Dr. Hearsey writes (30.III.1909) stating that Dowa is in the Central Angoniland District. He encloses a letter from Dr. E.H.A. Pask, Medical Officer, Dowa who writes to him (24.III.1909):- "The ticks are all collected in the prison at Dowa, which is literally alive with them. Some were obtained from the roof, others from sweepings from the floor whilst others were secured by making small holes in the walls and examining the dust obtained by poking with a piece of stick. It is rather strange that no cases of tick fever have been discovered among the prisoners during the month that I've been here - in fact no cases of fever at all. The natives round here suffer a good deal from it, in fact, I have

ORIGINAL DETERMINATIONCURRENT STATUS

N 724 (Continued)

found it commoner than malaria in cases that have come "up" for treatment; new-comers to the district seem to suffer the worst. My cook developed it after being here 12 days. The number of parasites found in the blood do not seem to have much relation to the severity of the attack. My cook had two very sharp attacks - he was very ill. Temperature 103-104° and spleen down to the umbilicus but the parasites in the blood were scanty, one or two to a slide, whilst a little girl who came "up" feeling comparatively well (slight headache and temperature 102) had numerous parasites in the blood, two in some fields. The parasites seem to be a good deal in length and the number of curves, 14, 20th; some have few curves whilst others eight or nine; the latter probably being really two parasites "end to end". The ticks transmitted are all, I think, Ornithodoros moubata.

Dr. George Wallace (6.V.1909) sent ticks to be identified, and being all common species, they were returned to him. They were all collected in Mauritius, and comprised:-

Amblyomma variegatum ♂'s, ♀'s, N's off cattle 16-18.XI.1908

Rhipicephalus evertsi ♂'s, ♀'s off cattle, goats 18.XI-6.XII.1908

Rhipicephalus appendiculatus ♂, ♀ off cow 18.XI.1908

N 725

N 725

RML 109383

Ornithodoros talaje 1♂1♂ Ornithodoros talaje

Brazil

Brazil

Rec'd 19.V.1909

Rec'd 19.V.1909

Through Col. A. Alcock, FRS,
London School of Tropical Medicine,
Royal Albert Dock

Dr. H. Bayon, of Bussu, Uganda, B. East Africa sent ticks 21.V.1909 to be determined, also 3 worms from the lung of a grass snake. The ticks were determined as follows:-

<u>Amblyomma variegatum</u> ♂'s, ♀'s	}	collected at Bussu, Uganda
<u>Haemaphysalis leachi</u> ♂'s, ♀'s		
<u>Boophilus decoloratus</u> ♂'s, ♀'s, N's		
<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		

A large gray tick (♀) off a land tortoise has been kept, together with worms for identification purposes.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	726	N	726
		RML	109384
	<u>Ixodes brunneus</u> N		1 N <u>Ixodes spinipalpis</u>
	Neck of a "varied thrush"		<u>Ixoreus naevius</u>
	Vancouver, British Columbia		Vancouver (49.15 N, 123.08 W), British Columbia, Canada
	28.V.1909		28.V.1909
	Thomas Bowhill, FRCVS		Thomas Bowhill, FRCVS

727-743. Ticks from N. & W. Nyasa Districts of Nyasaland, collected by Dr. J. B. Davey, Karonga, N. Nyasa, and sent by him 14.IV.1909 to Dr. Hearsey. Preserved in 90% alcohol; all ticks preserved since Jan'y 1909, were killed by dropping them into boiling fluid (abs alcohol & 1:500 Hg perchloride, equal parts); those killed earlier were dropped into boiling water etc. Sent by Dr. H. Hearsey, P.M.O., Zomba Nyasaland:-

N	727	N	727	MISSING
	<u>Haemaphysalis leachi</u>			
	Native dog			
	Chizizi V., near Hewe River, Nyasaland			
	16.II.1909			
	J. B. Davey			

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	728	N	728 MISSING
	<u>Rhipicephalus sanguineus</u>		
	Leopard		
	Kambwi near Karonga, N. Nyasa, Nyasaland		
	14.IV.1909		
	J. B. Davey		
N	729, a	N	729
	(729) <u>Boophilus australis</u>	RML	109385
	(a) <u>Haemaphysalis leachi</u>		15 ♀ <u>Boophilus microplus</u>
	Cattle		(a) MISSING
	Karonga, N. Nyasa, Nyasaland		Cattle
	7.II.1909		Karonga (09.56 S, 33.56 E), Malawi
	J. B. Davey		7.II.1909
			J. B. Davey
N	730, a	N	730, a
	(730) <u>Rhipicephalus simus</u>	RML	109386
	(a) <u>Rhipicephalus lunulatus</u> 1 ♂		(730) 3♂, 1 ♀ <u>Rhipicephalus simus</u>
	Cattle		(a) 1 ♂ <u>Rhipicephalus lunulatus</u>
	Ohilindi V., near Kanyezi Hill, N. Nyasa, Nyasaland		Cattle
	14.II.1909		Ohilindi V., near Kanyezi Hill (14.18 S, 33.59 E), Malawi
	J. B. Davey		14.II.1909
			J. B. Davey

ORIGINAL DETERMINATIONCURRENT STATUS

N 731, a-d

- (731) Rhipicephalus sanguineus
 (a) Rhipicentor bicornis
 (b) Rhipicephalus lunulatus
 (c) Rhipicephalus simus
 (d) Haemaphysalis leachi

Dog (terrier)

Journey Karonga = Forthill = Nyimbo =
 Misuko = Nkana = Karonga

March-April, 1909

J. B. Davey

(731) 1 ♂, 1 ♀ to Royal College of
 Surgeons, London 20.XII.1909

N 732

Rhipicephalus appendiculatus

Cattle

Karonga, N. Nyasa

13.IV.1909

J. B. Davey

N 731b, c

RML 109387

- (731) MISSING
 (a) MISSING
 (b) 3 ♂, 2 ♀ Rhipicephalus lunulatus
 (c) 10 ♂, 6 ♀ Rhipicephalus simus
 (d) MISSING

Dog (terrier)

Journey Karonga (09.56 S, 33.56 E),
 Chitipa (09.43 S, 33.16 E),
 Nyimbo Hill (09.41 S, 33.02 E),
 Misuku (09.40 S, 33.31 E),
 Nkana (locality not verified),
 Karonga, Malawi

March-April, 1909

J. B. Davey

731a - 1 ♂, 6 ♀ Rhipicentor
bicornis are in the RML collection.
 They were previously in the USNM
 collection before it was trans-
 ferred to RML in 1971.

N 732

RML 109388

12 ♂, 1 ♀ Rhipicephalus appendicu-
latus

Cattle

Karonga (09.56 S, 33.56 E), Malawi

13.IV.1909

J. B. Davey

ORIGINAL DETERMINATIONCURRENT STATUS

N 733
Haemaphysalis leachi
 Native dog
 Nyika Plateau, N. Nyasa, Nyasaland
 22.II.1909
 J. B. Davey

N 734, a, b

 (734) Amblyomma variegatum
 (a) Boophilus australis
 (b) Rhipicephalus simus
 Cattle
 Fort Hill, N. Nyasa
 26.I.1909
 J. B. Davey

N 735
Ornithodoros moubata
 From boys' houses
 Fort Hill, N. Nyasa, Nyasaland
 5.IV.1909
 J. B. Davey

N 733 MISSING

N 734, a, b

RML 109389

(734) MISSING
 (a) 2 ♀ Boophilus decoloratus
 (b) 1 ♀ Rhipicephalus appendiculatus

Cattle
 Chitipa (09.43 S, 33.16 E), Malawi
 26.I.1909
 J. B. Davey

N 735 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	736	N	736
		RML	109390
	<u>Aponomma exornatum</u>		6 ♂ <u>Aponomma exornatum</u>
	Nostrils of a monitor "Muganzi"		Nostrils of a monitor "Muganzi"
	Ntawira, N. Nyasa		Ntawira (15.44 S, 35.05 E), Malawi
	28.XII.1908		28.XII.1908
	J. B. Davey		J. B. Davey
			Vial label incorrectly states the country as N. Nigeria
N	737	N	737
		RML	109391
	<u>Boophilus australis</u>		3 ♀ <u>Boophilus decoloratus</u>
	Cattle		Cattle
	Mwinweynia V. Sekwa River, N. Nyasa		Mwinweynia V. Sekwa Stream (10.05 S, 33.35 E), Malawi
	13.II.1909		13.II.1909
	J. B. Davey		J. B. Davey
N	738	N	738
		RML	109392
	<u>Rhipicephalus simus</u>		10 ♂, 1 ♀ <u>Rhipicephalus lunulatus</u>
	Bush-pigs		<u>Potamochoerus porcus</u>
	Kaporo, near Songwe River, N. Nyasa		Kaporo (09.45 S, 33.55 E), near Songwe River, Malawi
	6.I.1909		6.I.1909
	J. B. Davey		J. B. Davey

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	739	N	739
		RML	109393
	<u>Boophilus australis</u>		7 ♀ <u>Boophilus decoloratus</u> 1 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Karonga, N. Nyasa		Karonga (09.56 S, 33.56 E), Malawi
	7.II.1909		7.II.1909
	J. B. Davey		J. B. Davey
N	740	N	740
		RML	105674
	<u>Rhipicephalus simus</u>		11 ♂, 10 ♀ <u>Rhipicephalus simus</u> 2 ♀, <u>Rhipicephalus supertritus</u> 1 ♀, <u>Rhipicephalus tricuspis</u>
	Wart-hog		<u>Phacochoerus aethiopicus</u>
	Near Kanyanyezi Hill, N. Nyasa		Near Kanyanyezi Hill (10.12 S, 33.35 E), Malawi
	14.II.1909		14.II.1909
	J. B. Davey		J. B. Davey
N	741	N	741
		RML	109394
	<u>Rhipicephalus neavei</u> 2 ♂'s (like small <u>nitens</u>)		2 ♂ <u>Rhipicephalus kochi</u>
	Bush-buck		<u>Tragelaphus scriptus</u>
	Near Runyinya River, N. Nyasa		Near Runyina River (10.59 S, 33.44 E), Malawi
	1.XI.1908		1.XI.1908
	J. B. Davey		J. B. Davey
	(With <u>Hippobosca</u>)		There is a cotype label in the vial with these specimens. However the only collection cited by Warburton (1912: 9) as being cotypes of <u>Rhipicephalus neavei</u> was Nuttall 1414

ORIGINAL DETERMINATIONCURRENT STATUS

N	742	N	742	MISSING
	<u>Haemaphysalis leachi</u> N			
	Civet-cat			
	Karonga, N. Nyasa, Nyasaland			
	13.I.1909			
	J. B. Davey			
N	743, a, b	N	743a, b	
		RML	109395	
	(743) <u>Amblyomma variegatum</u>		(743) MISSING	
	(a) <u>Boophilus australis</u>		(a) 2 ♀ <u>Boophilus decoloratus</u>	
	(b) <u>Rhipicephalus</u> sp.		(b) 3 ♂, 1 ♀ <u>Rhipicephalus</u> <u>appendiculatus</u>	
	Cattle		Cattle	
	Mwinipigi V. near Songwe River, N. Nyasa		Mwinipigi V., near Songwe River (09.43 S, 33.56 E), Malawi	
	11.III.1909		11.III.1909	
	J. B. Davey		J. B. Davey	
N	744	N	744	MISSING
	<u>Amblyomma marmoreum</u> ♀ (possibly the unknown ♀ of <u>A. clypeolatum</u>)			
	Land tortoise			
	Bussu, Uganda, B.E. Africa			
	Sent 27.IV.1909			
	Sent by Dr. H. Bayon			

ORIGINAL DETERMINATIONCURRENT STATUS

N 745

Dermacentor albipictus 1 ♀

Coast deer

British Columbia, Canada

2.XII.1908

T. Bowhill

N 745

RML 109396

1 ♀ Dermacentor albipictusOdocoileus hemionus

British Columbia, Canada

2.XII.1908

T. Bowhill

N 746

Ixodes hexagonus larvae

Polecat

Aberystwyth, Wales

VIII.1900

[R 232]

N 746 MISSING

1 N, 3 L Ixodes hexagonus from
Nuttall 746 are in the general
tick collection of the BM(N.H.)

ORIGINAL DETERMINATIONCURRENT STATUS

N 747

N 747 MISSING

Dermacentor ? albipictus larvae

Cow (with redwater)

Fraser Valley, British Columbia

Rec'd. V.1909

T. Bowhill

Parent ♀ from a cow.

Oviposition began 25.I.1909.

Maintained at 29°C. the larvae appeared 12.V.1909. (They all arrived dead in Cambridge.)

Note: ex Bowhills' letter of 16.V.1909. [5 larvae mounted in balsam on 2 slides.]

748-750. Ticks collected by Dr. E.H.A. Pask, at Dowā, Central Angoniland, April 7, 1909. Sent by Dr. H. Hearsey, Principal Medical Officer, Zomba, Nyasaland, May 17, 1909:-

N 748, a

N 748, a

RML 109397

(748) Rhipicephalus sanguineus(748) 9 ♂, 9 ♀ Rhipicephalus sanguineus(a) Rhipicephalus simus(a) 1 ♂ Rhipicephalus simus

Dogs and man

Dogs and man

Lilongwe, Central Angoniland

Lilongwe (13.59 S, 33.47 E), Malawi

7.IV.1909

7.IV.1909

Dr. E.H.A. Pask

Dr. E.H.A. Pask

ORIGINAL DETERMINATIONCURRENT STATUS

N 749, a

N 749

RML 109398

(749) Rhipicephalus simus
(a) Haemaphysalis leachi(749) 5 ♂, 3 ♀ Rhipicephalus simus
(a) MISSING

Native dog

Native dog

Chirua River, Central Angoniland

Chirua River (13.25 S, 34.19 E),
Malawi

6.V.1909

6.V.1909

Dr. Pask

Dr. Pask

N 750, a

N 750

RML 109399

(750) Hyalomma aegyptium 1 ♂, ♀'s
(a) Amblyomma variegatum 2 ♂'s(750) 4 ♂ Hyalomma truncatum
(a) MISSING

Cattle

Cattle

Dowa, Central Angoniland

Dowa (13.41 S, 33.59 E), Malawi

14.IV.1909

14.IV.1909

Dr. Pask

Dr. Pask

751-755. Ticks collected by Mr. S. A. Neave in Rhodesia. Sent to us by Mr. K. Wilkinson (Secretary, Manchester Museum. The Victoria University of Manchester) at the request of Dr. C. Gordon Hewitt on July 21st, 1909. They were determined by Mr. C. Warburton, as follows:-

N 751

N 751 MISSING

Hyalomma aegyptiumGiraffe (Giraffa camelopardalis)

Mid Luangwa Valley, N.E. Rhodesia

27.VII.1905

Mr. S. A. Neave

ORIGINAL DETERMINATIONCURRENT STATUS

N 752

N 752

RML 109400

Rhipicephalus capensis1 ♂, 2 ♀ Rhipicephalus compositusBuffalo (Bubalus caffer)Syncerus cafferMsofu River, Alala Plateau,
N.W. Rhodesia (about 75 miles NE
of Broken Hill Rhodesia)Msofu River, Alala Plateau
about 121 km NE of Kabwe
(14.27 S, 28.27 E), Zambia

22.IV.1905

22.IV.1905

S. A. Neave

S. A. Neave

Sheffield Airey Neave (1879-1961)
took part in expeditions to
various parts of Africa from
1904-1914. Director of what is
now the Commonwealth Institute
of Entomology 1942-1946.

N 753

N 753 MISSING

Rhipicephalus evertsiZebra (Equus burchelli)

Petauke Luangwa Valley, N.E. Rhodesia

30.XII.1905

S. A. Neave

ORIGINAL DETERMINATIONCURRENT STATUS

N 754

N 754

RML 109401

Haemaphysalis leachi var. indica
1 ♀1 ♀ Haemaphysalis leachiMongoose (Helogale varia)Helogale parvula variaMsofu River, Alala Plateau,
N.W. Rhodesia (about 75 miles N.E.
of Broken Hill Railhead)Msofu River, (13.27 S, 29.03 E),
Alala Plateau about 121 km N.E.
of Kabwe, Zambia

7.XI.1905

7.XI.1905

Cited: Nuttall & Warburton (1915:
471). There is a blue TYPE label
in the vial and the genital aper-
ture has been removed and mounted
on a slide.

N 755

N 755

RML 109402

Amblyomma pomposum1 ♂ Amblyomma pomposumSable antelope, Egoceros nigerHippotragus nigerMsofu River, Alala Plateau,
N.W. Rhodesia (about 75 miles
N.E. of Broken Hill, Railhead)Msofu River, (13.37 S, 29.03 E),
Alala Plateau about 121 km N.E.
of Kabwe, Zambia

7.XI.1905

7.XI.1905

S. A. Neave

S. A. Neave

This specimen had been previously
described as A. variegatum with
the comment (n. var., received by
us before, but not described).Date on vial label is 8.XI.1905.
Cited: Robinson (1926: 100).
Figure 45 is of a ♀ from this
lot now pinned and in the BMNH
collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N 756

Hyalomma syriacum 2 ♂'sTestudo

Grantchester, Cambs.

18.VI.1909

E. S. Hay

N 756

RML 109403

2 ♂ Hyalomma aegyptiumTestudo sp.Grantchester (52.10 N, 00.06 E),
Cambs., England

18.VI.1909

E. S. Hay

N 757

Ornithodoros moubata

Inhambane, Portuguese East Africa

Sent 4.VI.1909

Sent by C. W. Howard, Government
Entomologist, Lourenco Marques

N 757 MISSING

N 758

Ornithodoros savignyi

N. Transvaal, S. Africa

Sent 4.VI.1909

Sent by Mr. C. W. Howard

N 758

RML 109404

1 ♀ Ornithodoros savignyi

N. Transvaal, S. Africa

Sent 4.VI.1909

Sent by Mr. C. W. Howard

ORIGINAL DETERMINATIONCURRENT STATUS

N 759

N 759

RML 71487

Hyalomma n. sp.10 ♂ Hyalomma kumari

Goats

Goats

Agra, India

Agra (27.11 N, 78.01 E), India

Rec'd 27.VII.1909

Rec'd 27.VII.1909

Rec'd from Dr. E. H. Hankin

Rec'd from Dr. E. H. Hankin

(Like 766: Montgomery's "19"
also from India)An additional 5 ♂ are now in the
NAMRU-3 collection (HH 2742).
Cited: Kaiser & Hoogstraal
(1964: 262).760-767. Ticks sent by Captain R. E. Montgomery, I.M.S. (from collection
in the Liverpool School of Tropical Medicine, Liverpool), all collected
in India, as follows:

N 760

N 760

RML 109405

Haemaphysalis montgomeryi n. sp., ♂1 ♂ lectotype Haemaphysalis
montgomeryi4 ♂, 2 ♀ paralectotype Haemaphysalis
montgomeryi

Ear of pony

Ear of pony

Muktesar, United Provinces India

Mukteswar (29.29 N, 79.39 E), India

6-7.VI.1905

6-7.VI.1905

R. E. Montgomery

R. E. Montgomery

[♂ tarsus 4 mounted in balsam
on slide]Nuttall (1912: 57), original
description; Hoogstraal et al.
(1966: 180), redescription and
selection of lectotype. Tarsal
slide present. Vulva of one of
the ♀ paralectotypes removed and
mounted on a slide. Cited: Moritz
& Fischer (1981: 355).

ORIGINAL DETERMINATIONCURRENT STATUS

N	761	N	761
		RML	109406
	<u>Haemaphysalis montgomeryi</u> n. sp., ♀		2 ♀ Paralectotypes <u>Haemaphysalis montgomeryi</u>
	Ear of bull		Ear of bull
	Berinag, India		Berinag (29.48 N, 80.04 E), India
	9.IX.1905		9.IX.1905
	R. E. Montgomery		R. E. Montgomery
			Nuttall (1912: 57), original description; Hoogstraal et al. (1966: 180) selection of paralectotypes.
N	762	N	762
		RML	109407
	<u>Haemaphysalis montgomeryi</u> ♂, 1 ♀		2 ♂, 1 ♀ Paralectotypes <u>Haemaphysalis montgomeryi</u>
	Back and ears of dog		Back and ears of dog
	Muktesar, U.P., India		Mukteswar (29.29 N, 79.39 E), India
	3.VIII.1905		3.VIII.1905
	R. E. Montgomery		R. E. Montgomery
			Nuttall (1912: 57), original description; Hoogstraal et al. (1966: 180) indicates 3 ♂ paralectotypes.

ORIGINAL DETERMINATION

N 763

Haemaphysalis flava ♂ & ♀

Dog

Madras, India

9.V.1906

V. J. Phadke

Also from Sus cristatus at
Muktesar 5.V.1905 by
R. E. Montgomery

N 764

Rhipicephalus haemaphysaloides

Jackal

Muktesar, V.P., India

14.VII.1905

R. E. Montgomery

CURRENT STATUS

N 763

RML 109408

1 ♂, 1 ♀ Haemaphysalis indoflava

Dog

Madras (13.05 N, 80.17 E), India

9.V.1906

V. J. Phadke

N 764

RML 109409

2 ♂, 4 ♀ Rhipicephalus
haemaphysaloides

Canis aureus

Mukteswar(29.29 N, 79.39 E),
India

14.VII.1905

R. E. Montgomery

Date on vial label is 14.VI.1905

ORIGINAL DETERMINATIONCURRENT STATUS

N 765

Ornithodoros lahorensis N's

Sheep - suffering from
"Chichere Ki bimari" =
tick sickness

Shadra, Lahore, India

IV.1906

R. E. Montgomery

Some to W. F. Cooper 22.I.1910.
some to Dr. H. de B. Aragão,
Brazil 23.I.1910.
Some to Col. A. Alcock FRS,
London School Tropical Medicine
26.I.1910.

N 765

RML 109410

7 N Ornithodoros lahorensis

Sheep - suffering from
"Chichere Ki bimari" =
tick sickness

Shahdara (31.38 N, 74.18 E),
Pakistan

IV.1906

R. E. Montgomery

One nymph of N 765 is now in
the RML collection. It was
found when the USNM collection
was transferred to RML in 1971.

N 766

Hyalomma - n. sp. (like 759)
off abdomen

Goat

Haldwani, U.P., India

2.VI.1905

Veterinary - Assistant Abdul
Ghani coll ["19"]

(With Haem. bispinosa)

N 766 MISSING

ORIGINAL DETERMINATION

N 767

Dermacentor auratus var. compactusSus cristatus

R. E. Montgomery

(With Haemaphysalis) 1 ♂, 1 ♀ to
C. Strickland, MalayaCURRENT STATUS

N 767

RML 109411

1 ♂, 1 ♀ Dermacentor sp.Sus scrofa cristatus

India

18.X.1905

R. E. Montgomery

Data on locality and date from
vial label

The Montgomery collection also contained the following species (determined by C. Warburton) which were returned:-

- Argas persicus, from chicken houses, Kalat, Baluchistan 10.VI.1906.
R. E. Montgomery collection [No. no.]. (1 nymph alive 6.X.1909 unfed, in bottle since 15.I.1907 G.H.F.N.).
- Aponomma gervaisi, off Monitor, Kuala Lever, Siam 3.VII.1905
MacKenzie coll.
- Boophilus australis, off cattle, Muktesar, U.P. 15.VII.1905
R. E. Montgomery coll (No. no.); also off cattle., Muktesar, "just arrived from Haldwani," 6.VI.1905.
R. E. Montgomery coll.
- Haemaphysalis bispinosa (our 766) off goats abdomen, Haldwani U.P. India, 2.VI.1905, Abdul Ghani coll. (found with Hyalomma n. sp., 766)... (our 760c), off pony's ear, Haldwani, U.P. 6.VI.1905. R. E. Montgomery coll.
- Hyalomma aegyptium N's, off sheeps ear (tick disease ?), Shadra, no date, etc. - N's, off rabbit, Lahore, no date, etc. - "4", N's off pony's ear, Kathgodam, U.P., 26 V. 1905.
R. E. Montgomery coll.
- Rhipicephalus sanguineus, off dog. Haldwani, U.P., India 2.VI.1905.
Abdul Ghani coll.
- off pony's perinacum, same place and collection 2.VI.1905.
- off dog, Lahore 20.II.1906.
- off cattle coming from Berinag, Kumaun, Muktesar, 27.V.1905. R. E. Montgomery coll.
- off dog, Muktesar, U.P. 29.VII.1905. R. E. Montgomery coll.

768-771. Ticks collected at Kittendorf, near Stavenhagen, Mecklenburg, Germany, by G.H.F. Nuttall, VIII.1909:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	768	N	768
		RML	109412
	<u>Ixodes canisuga</u> 1 ♀		1 ♀ <u>Ixodes ricinus</u>
	Dog		Dog
	Kittendorf, near Stavenhagen, Mecklenburg, Germany		Kittendorf (53.38 N, 12.54 E), near Stavenhagen, Mecklenburg, German Democratic Republic.
	VIII.1909		VIII.1909
	G.H.F. Nuttall		G.H.F. Nuttall
			Nuttall & Warburton (1911: 214) indicate more than one ♀ present in this collection.
N	769	N	769 MISSING
	<u>Ixodes ricinus</u> ♂'s, ♀'s (one pair <u>in copula</u>)		
	Red Deer (<u>Cervus elephas</u>)		
	Kittendorf, near Stavenhagen, Mecklenburg, Germany		
	12.VIII.1909		
	G.H.F. Nuttall		
	1 ♂, 1 ♀ to Major J. E. M. Boyd, Cambridge 20.XII.1919.		
	1 ♂, 1 ♀ to Dr. J. Gordon Thompson London School Trop. Med. 8.I.1920.		
	1 ♂, 1 ♀ to Dr. R. W. Hegner, Johns Hopkins, Baltimore 8.III.1920.		
	1 ♂, 1 ♀ to Dr. R. J. Tillyard, Nelson, N.Z. VI.1920.		
	1 ♂, 1 ♀ to Prof. Jules Bordet, Bruxelles, Belgium 30.VI.1920.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	770	N	770 MISSING
<u>Ixodes ricinus</u> 2 ♂'s, 1 ♀ (<u>in copula</u>)			
<u>Cervus elephas</u>			
Kittendorf, near Stavenhagen, Mecklenburg, Germany 17.VIII.1909			
G.H.F. Nuttall			
N	771	N	771 MISSING
<u>Ixodes ricinus</u> 1 ♀, 4 ♂'s, 1 N (<u>one in copula</u>)			
Roe-buck, (<u>Capreolus capra</u>)			
Kittendorf, near Stavenhagen, Mecklenburg, Germany 12.XIII.1909			
G.H.F. Nuttall			

Dublin National Museum Ticks

These Irish ticks were brought by Professor G. H. Carpenter in June, 1909. (Dr. Schaff, keeper of the Museum, lent them):-

Ixodes ricinus:- from Glengariff, V.1891. - from Clonbrock, IX.1897 [197] - off cattle (redwater) Lochrea 2.VI.1909.
 - off cattle, Wexford, off cattle (healthy), Dingle, 19.VI.1909, Mr. W. Dagg. - Limerick 1898 - Cappamore, Co. Limerick, 29.IX.1895. - off (?) mare, Stepside, Co. Dublin 16.VI.1909. - off cows, Cookstown - 16.VI.1909 - Kenmure, 1898 - off dog, Lugan, 14.V.1907. - Achill, 1898 - Glandore, 1895.
 - Trillick, Co. Tyrone - Crackhaven 1895 - Roundstone, J.H.H. - Ardagh, W.H.J. - Castletown 3.VI.1893 - Kenmore 15.VIII.1898 - Lough Carrib. 1905.

Eschatocephalus vespertilionis - 1 ♀ (gorged) Eden Vale Cave, Co. Clare, VII.1902 (Returned).

ORIGINAL DETERMINATIONCURRENT STATUS

N 771X

N 771X

RML 109413

Amblyomma albolimbatum2 ♂ Amblyomma albolimbatumEgernia stokesiiEgernia stokesii (name not verified)

No other data

No other data

772-779. Ticks received from Colonel Sir David Bruce, C.B., F.R.S., Mpumu, Chagwe, Uganda, Africa, May 21, 1909:-

N 772

N 772 MISSING

Amblyomma cohaerens ♂, ♀ dry

Probably Mpumu, Chagwe, Uganda

Rec'd 21.V.1909

Rec'd from Col. Sir David Bruce

L.E.R. det. 1926

1 ♂, 1 ♀ Amblyomma cohaerens (pinned) are in the BMNH collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N 773

Amblyomma tholloni ♂, ♀ dry

Elephant

Probably Mpumu, Chagwe, Uganda

Rec'd. 21.IV.1909

Rec'd. from Col. Sir David Bruce

N 773

RML 109414

1 ♂, 1 ♀ Amblyomma tholloniLoxodonta africanaProbably Mpumu (00.12 N, 32.50 E),
Uganda

Rec'd. 21.IV.1909

Rec'd. from Col. Sir David Bruce

Pinned specimens

Cited: Robinson (1926: 252).

N 774

Rhipicephalus capensis ♂, ♀

Buffalo and warthog

Probably Mpumu, Chagwe, Uganda,
Africa

Rec'd. 21.V.1909

Rec'd. from Col. Sir David Bruce

N 774

RML 109415

1 ♂, 1 ♀ Rhipicephalus sp.Syncerus caffer & Phacochoerus
aethiopicusProbably Mpumu (00.12 N, 32.50 E),
Uganda

Rec'd. 21.V.1909

Rec'd. from Col. Sir David Bruce

Pinned specimens

ORIGINAL DETERMINATIONCURRENT STATUS

N	775, a-d	N	775
		RML	109416
	(775) <u>Boophilus decoloratus</u>		(775) 9 ♀ <u>Boophilus decoloratus</u>
	(a) <u>Rhipicephalus appendiculatus</u>		(a) MISSING
	(b) <u>Rhipicephalus evertsi</u>		(b) MISSING
	(c) <u>Haemaphysalis leachi</u>		(c) MISSING
	(d) <u>Amblyomma variegatum</u>		(d) MISSING
	Cattle		Cattle
	Masaka, in Buddu, Uganda		Masaka (00.20 S, 31.44 E), Uganda
	VI.1909		VI.1909
	Rec'd. from Col. Sir David Bruce		Rec'd. from Col. Sir David Bruce
			Nuttall 2717 was also mislabelled with this Nuttall number.
N	776	N	776
		RML	109417
	<u>Boophilus decoloratus</u>		1 ♂, 65 ♀ <u>Boophilus decoloratus</u>
	Cattle		Cattle
	Sesse Islands, Victoria Nyanza		Sese Islands (00.20 S, 32.20 E), Uganda
	18.VI.1909		18.VI.1909
	Rec'd. from Col. Sir David Bruce		Rec'd. from Col. Sir David Bruce
	1 ♂, 1 ♀ to Royal College of Surgeons, London 20.XII.1909		Nuttall 776 is also 1 ♀ <u>Aponomma flavomaculatum</u> ex large lizard
			Uganda
			1913
			Dr. H. B. Owen
			There is no mention of this collection under 776 in the catalogue nor is Dr. H. B. Owen listed in Nuttall's notebook of donors to this collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N 777

Boophilus decoloratus

Cattle

Sesse Islands, Victoria Nyanza

Date ?

Rec'd. from Col. Sir David Bruce

N 777

RML 109418

12 ♀ Boophilus decoloratus

Cattle

Sese Islands (00.20 S, 32.20 E),
Uganda

Date ?

Rec'd. from Col. Sir David Bruce

N 778

Amblyomma variegatum

Maseno cattle

Mpumu, Uganda

VI.1909

Rec'd. from Col. Sir David Bruce

1 ♂, 1 ♀ to Richard Hancock,
England, 16.VI.1918

N 778

RML 109419

39 ♂, 20 ♀ Amblyomma variegatum

Maseno cattle

Mpumu (00.12 N, 32.50 E), Uganda

VI.1909

Rec'd. from Col. Sir David Bruce

N 779

Amblyomma petersi (2♂, 2 ♀)

Rhinoceros

Uganda

Sent 2.VI.1909

Rec'd. from Col. Sir David Bruce

N 779

RML 109420

1 ♂, 2 ♀ Amblyomma rhinocerotisDiceros bicornis or ceratotherium
simum

Uganda

Sent 2.VI.1909

Rec'd. from Col. Sir David Bruce

Dr. Eugen Dschunkowsky of Helmsendorf bei Elisabethpol, Transcaucasia, sent his collection of ticks during 1910. Their determination, together with full data are as follows:

N	780, a	N	780
		RML	109421
	(780) <u>Haemaphysalis inermis</u>		(780) 7 ♂ <u>Haemaphysalis parva</u>
	(a) <u>Haemaphysalis cinnabarina</u> 7 ♂		(a) MISSING
	Cattle		Cattle
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	Sent 1910		Sent 1903
	Dr. E. Dschunkowsky		Dr. E. Dschunkowsky
	(a) (1♂ with long spine on coxa IV, 1 ♂ with medium spine, 5 ♂ without spine) showing variability of this character! See also Nos.		Collecting date on vial label
N	781	N	781
		RML	109422
	<u>Haemaphysalis inermis</u>		6 ♀ <u>Haemaphysalis inermis</u>
	Cattle		Cattle
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	Sent 1910		Sent 1910
	Dr. E. Dschunkowsky "No. 2"		Dr. E. Dschunkowsky "No. 2"
			Cited: Nuttall & Warburton (1915: 366).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	782	N	782
		RML	109423
	<u>Haemaphysalis punctata</u>		5 ♀ <u>Haemaphysalis parva</u>
	Hare		Hare
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	1.X.1903		
	Dr. E. Dschunkowsky "No. 84"		Dr. E. Dschunkowsky "No. 84"
N	783	N	783
		RML	109424
	<u>Haemaphysalis punctata</u>		4 ♂ <u>Haemaphysalis parva</u>
	Hare		Hare
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	Sent 1910		1903
	Dr. E. Dschunkowsky "No. 93"		Dr. E. Dschunkowsky "No. 93"
	4 ♂ without spines on Coxa IV		Date taken from vial label
N	784	N	784
		RML	109425
	<u>Haemaphysalis cinnabarina</u> , 4 ♂, 5 ♀		4 ♂, 8 ♀ <u>Haemaphysalis parva</u>
	Fox		<u>Vulpes vulpes</u>
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	1.X.1903		1.X.1903
	Dr. E. Dschunkowsky "No. 68"		Dr. E. Dschunkowsky "No. 68"
	♂'s without spine on Coxa IV		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	785	N	785 MISSING
	<u>Haemaphysalis</u> sp.		
	Fox		
	Surnabad		
	1.X.1903		
	Dr. E. Dschunkowsky "No. 66"		
N	786	N	786
		RML	109743
	<u>Haemaphysalis leachi</u> (very punctate)		1 ♂ <u>Haemaphysalis</u> sp.
	Bear		<u>Ursus arctos</u>
	Surnabad		Zurnabad (40.30 N, 46,15 E), Azerbaijan SSR, USSR
	VIII.1903		VIII.1903
	Dr. E. Dschunkowsky "No. 58"		Dr. E. Dschunkowsky "No. 58"
N	787	N	787
		RML	109744
	<u>Haemaphysalis cinnabarina</u> 6♂		6 ♂ <u>Haemaphysalis parva</u>
	Bear		<u>Ursus arctos</u>
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	VIII.1903		VIII.1903
	Dr. E. Dschunkowsky "No. 60"		Dr. E. Dschunkowsky "No. 60"
	Without spines on Coxa IV		

ORIGINAL DETERMINATIONCURRENT STATUS

N 788

Haemaphysalis inermis 1 ♀

Surnabad

Sent 1910

Dr. E. Dschunkowsky "No. 74"

N 788

RML 109745

1 ♀ Haemaphysalis inermisZurnabad (40.30 N, 46.15 E),
Azerbaijan SSR, USSR

Sent 1910

Dr. E. Dschunkowsky "No. 74"

Nuttall & Warburton (1915:
364) figured this specimen

N 789

- (789) Haemaphysalis inermis
 (a) Haemaphysalis punctata
 (b) Boophilus annulatus
 (c) Boophilus annulatus
 (d) Haemaphysalis inermis
 (e) Haemaphysalis cinnabarina

Fox

Surnabad

1903

Dr. E. Dschunkowsky "No. 64"

(e) without spines on Coxa IV

N 789, d, e

RML 109746

- (789) 2 ♂ Haemaphysalis inermis
 (a) MISSING
 (b) MISSING
 (c) MISSING
 (d) 1 ♂ Haemaphysalis inermis
 (e) 5 ♂ Haemaphysalis parva

Vulpes vulpesZurnabad (40.30 N, 46.15 E),
Azerbaijan SSR, USSR

1903

Dr. E. Dschunkowsky "No. 64"

Nuttall & Warburton (1915: 363)
figured the ♂ of 789d but it is
incorrectly labelled 739d.

ORIGINAL DETERMINATIONCURRENT STATUS

N 790, a
 (790) Haemaphysalis leachi
 (scutum very short)
 (a) Amblyomma sp. N's
 Hare
 Surnabad
 4.IX.1904
 Dr. E. Dschunkowsky "No. 86"

N 791

Boophilus calcaratus
 Surnabad

 Sent 1910
 Dr. E. Dschunkowsky "No. 8"

N 792

Boophilus calcaratus
 Surnabad

 Sent 1910
 Dr. E. Dschunkowsky "No. 9"

N 790, a MISSING

N 791
 RML 109747
 12 ♂ Boophilus annulatus
 Zurnabad (40.30 N, 46.15 E),
 Azerbaijan SSR, USSR
 Sent 1910
 Dr. E. Dschunkowsky "No. 8"

 There is also one vial containing
 2 ♂, 3 ♀ Boophilus annulatus
 with Nuttall No. 791-2

N 792
 RML 109748
 17 ♀ Boophilus annulatus
 Zurnabad (40.30 N, 46.15 E),
 Azerbaijan SSR, USSR
 Sent 1910
 Dr. E. Dschunkowsky "No. 9"
 See note under N 791

ORIGINAL DETERMINATIONCURRENT STATUS

N 793

Haemaphysalis sp.

Cattle

Surnabad

Sent 1910

Dr. E. Dschunkowsky "No. 29"

(A freak, undeterminable as yet
GHFN 13.I.1915)

N 793

RML 109749

2 ♀ Rhipicephalus bursa

Cattle

Zurnabad (40.30 N, 46.15 E),
Azerbaijan SSR, USSR

Sent 1910

Dr. E. Dschunkowsky "No. 29"

N 794

Ornithodoros tholozani N

Cattle

Surnabad

Sent 1910

Dr. E. Dschunkowsky "No. 14"

C. W. det. 1917, he notes, "1st st
N, short legs, puzzling but we don't
know that 1st st N has not short legs.
Anyhow it is impossible to make a
n. sp. of a 1st st N"

N 794

RML 109750

1 N Ornithodoros sp.

Cattle

Zurnabad (40.30 N, 46.15 E),
Azerbaijan SSR, USSR

Sent 1910

Dr. E. Dschunkowsky "No. 14"

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	795	N	795
		RML	73677
	<u>Hyalomma aegyptium</u> ♂'s "35", ♀'s "33"		2 ♂, 3 ♀ <u>Hyalomma marginatum</u> 1 ♂ <u>Hyalomma detritum</u> 1 ♂ <u>Hyalomma anatolicum excavatum</u>
	Camels		Camels
	Dschenvanschir "Reise"		Hills near Dnepropetrovsk (48.27 N, 34.59 E) Ukrainian SSR, USSR
	Sent 1910		Sent 1910
	Dr. E. Dschunkowsky		Dr. E. Dschunkowsky
			An additional 1 ♂, 1 ♀ <u>H. marginatum</u> are in the NAMRU-3 collection.
N	796	N	796
		RML	109751
	<u>Rhipicephalus sanguineus</u>		2 ♂ <u>Rhipicephalus turanicus</u> 1 ♂ <u>Rhipicephalus leporis</u>
	Hare		Hare
	Transcaucasia		Azerbaijan SSR, USSR
	13.VII.1907		13.VII.1907
	Dr. E. Dschunkowsky "No. 89"		Dr. E. Dschunkowsky "No. 89"
N	797	N	797 MISSING
	<u>Rhipicephalus sanguineus</u>		
	<u>Erinaceus colligenis</u>		
	Mugan-Steppe		
	IV.1902		
	Dr. E. Dschunkowsky "No. 69"		

ORIGINAL DETERMINATIONCURRENT STATUS

N 798

Haemaphysalis punctata

Bear

Surnabad

VIII.1903

Dr. E. Dschunkowsky "No. 59"

N 798

RML 109752

5 ♀ Haemaphysalis parvaUrsus arctosZurnabad (40.30 N, 46.15 E),
Azerbaijan SSR, USSR

VIII.1903

Dr. E. Dschunkowsky "No. 59"

N 799

Ixodes ricinus 2♀

Bear

Surnabad

VIII.1903

Dr. E. Dschunkowsky

N 799 MISSING

N 800

Dermacentor reticulatus 3 ♂, 2 ♀

Bear

Surnabad

VIII.1903

Dr. E. Dschunkowsky "No. 56"

N 800

RML 109753

2 ♂ Dermacentor reticulatusUrsus arctosZurnabad (40.30 N, 46.15 E),
Azerbaijan SSR, USSR

VIII.1903

Dr. E. Dschunkowsky "No. 56"

The Nuttall Tick Catalogue
Volume II, Nos. 801-3500

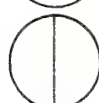
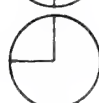
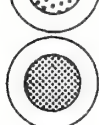
These labels accompanying specimens indicate:

- TYPE = Types from which a new species has been described.
- CO-TYPE = Co-types or specimens belonging to the same lot or lots from which the types are selected.
- O-TYPE = O-type, specimens which have been compared with the types by N. & W.
- = Specimens of special interest, as being deformed, figured for our book, etc.

G.H.F. Nuttall

18.VI.1914

Tops of corks

-  = marked thus for types
-  = thus for co-types
-  = thus for specimens compared with types and which serve as types (O-types).
-  = brass nail on top = pinned
-  = black topped nail on top of slides

Signs on labels: ♂ ♀ stands for male & female
 O " " nymph
 L " " larva

a,b,c,etc. after a number denotes the different species collected off the same host.

(i) (ii) (iii), etc. after a number denotes that the ticks of one species have been separated & put in different tubes, etc., according to the stages represented: ♂ ♀ are often together.
 Os, Ls & eggs, empty skins etc. separated.

Some Addresses of Persons

who have sent ticks

Fletcher, J. B. (Esq.)	Govt. Entomologist, Agricultural College, Coimbatore, Madras	Sent 2 bats (<u>Scotophilus heathi</u> Horsfield) with <u>Argas vesper-</u> <u>tilionis</u> larvae attached. Bats presented to Brit. Mus. (Nat. Hist.) XI.19. [See N. 1856 - JFk]
Fletcher, N. J.	M.R.C.V.S. Veterinary Estab- lish. 51 Chester Street North Wales, ~~Wrexham~~	Sent ticks Nos. 1991, 2079 - <u>R.</u> <u>sanguineus</u> off dog, Brymbo, near Wrexham, N. Wales. II & III.1913
Glover, H. J.	Labac J. E., Dewan, P. O. Cachar, (Assam), India	Ear tick.
Harrison, J.R.V. (Esq.)	11, Aurora Court Ellice Avenue, Winnipeg, Manitoba, Canada	Sent ticks (No. 2452) off cattle, Manitoba, Canada. 13.X.1913.
Hooker, C. W. (Esq.)	Entomologist, Porto Rico Agricultural Experiment Station Mayaguez, Porto Rico West Indies	Sent ticks, 9.I.1913.
Hull, Munro (Esq.)	"Cudgree" Eumundi Queensland, Australia	VIII:1913
Kinnear, N. B. (Esq.)	Bombay Natural History Society 8 Apollo Street Bombay, India	Sent coll. of ticks to determine & keep some of the specimens. Also wants a short paper on them for publication in his journal. 17.V.1912.
Koningsberger, J. C. (Professor)	Lands Plantenuin Buitenzorg, Java, Dutch East Indies	Sent collection of ticks in 1909.

ORIGINAL DETERMINATIONCURRENT STATUS

N 801

N 801

RML 109754

Rhipicephalus bursa ♂'s ♀'s5 ♂, 11 ♀ Rhipicephalus bursa

Cattle

Cattle

Surnabad

Zurnabad (40.30 N, 46.15 E),
Azerbaijan SSR, USSR.

Nymphs 26.X.1903 emerged 5.VI.1904

Nymphs 26.X.1903 emerged 5.VI.1904

Dr. E. Dschunkowsky "No 17"

Dr. E. Dschunkowsky "No 17"

(1/2 of lot returned)

N 802

N 802

RML 109755

Rhipicephalus bursa ♂'s6 ♂ Rhipicephalus bursa

Cattle

Cattle

Kazjan, Kreis
GeschtschaiKazjan, USSR (locality not
verified)

1.VII.1904

1.VII.1904

Dr. E. Dschunkowsky "No 24"

Dr. E. Dschunkowsky "No 24"

N 803

N 803

RML 109756

Rhipicephalus bursa N's21 N Rhipicephalus bursa

Sheep

Sheep

Surnabad

Zurnabad (40.30 N, 46.15 E),
Azerbaijan SSR, USSR.

29.X.1903

29.X.1903

Dr. E. Dschunkowsky "No 55"

Dr. E. Dschunkowsky "No 55"

(1/2 of lot returned)

ORIGINAL DETERMINATIONCURRENT STATUS

N 804

Haemaphysalis cinnabarina 2 ♂, 2 ♀

Sheep

Surnabad

28.X.1903

Dr. E. Dschunkowsky "No 42"

N 804

RML 109757

4 ♂ Haemaphysalis parva

Sheep

Zurnabad (40.30 N, 46.15 E),
Azerbaijan SSR, USSR

28.X.1903

Dr. E. Dschunkowsky "No 42"

N 805

Haemaphysalis punctata

Sheep

Surnabad

26.X.1903

Dr. E. Dschunkowsky "No. 46"

(1/2 of lot returned)

N 805

RML 109758

5 ♂ Haemaphysalis parva

Sheep

Zurnabad (40.30 N, 46.15 E),
Azerbaijan SSR, USSR

26.X.1903

Dr. E. Dschunkowsky "No. 46"

N 806

Hyalomma aegyptium

Sheep

Utsch-Tapa

16.V.1909

Dr. E. Dschunkowsky "No. 47"

N 806

RML 109759

2 ♂ Hyalomma detritum

Sheep

Uchtepe (39.19 N, 48.26 E), USSR

16.V.1909

Dr. E. Dschunkowsky "No. 47"

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	807	N	807
		RML	109760
	<u>Dermacentor reticulatus</u> ♂'s		2 ♂ <u>Dermacentor niveus</u>
	Sheep		Sheep
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	25.III.1903		25.III.1903
	Dr. E. Dschunkowsky "No. 45"		Dr. E. Dschunkowsky "No. 45"
	(1/2 of lot returned)		
N	808	N	808
		RML	109761
	<u>Dermacentor reticulatus</u> 1 ♀		1 ♀ <u>Dermacentor niveus</u>
	Sheep		Sheep
	Utsch-Tapa		Uchtepe (39.19 N, 48.26 E), USSR
	16.V.1909		16.V.1909
	Dr. E. Dschunkowsky "No. 51"		Dr. E. Dschunkowsky "No. 51"
N	809	N	809
		RML	109762
	<u>Dermacentor reticulatus</u> 1 ♂, 1 ♀		1 ♀ <u>Dermacentor niveus</u>
	Cattle		Cattle
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	Der. E. Dschunkowsky (ex tubes "4" and "5")		Dr. E. Dschunkowsky (ex tubes "4" and "5")

ORIGINAL DETERMINATIONCURRENT STATUS

N 810

N 810

RML 109763

Haemaphysalis punctata 3 ♀'s2 ♀ Haemaphysalis parva

Surnabad

Zurnabad (40.30 N, 46.15 E),
Azerbaijan SSR, USSR

1903

Dr. E. Dschunkowsky "No. 3"

Dr. E. Dschunkowsky "No. 3"

Labelled "caucasica"

N 811

N 811

RML 109764

Amblyomma integrum 1 ♂ (dry)1 ♂ Amblyomma integrum

Iala, Ceylon

Iala, Sri Lanka (locality not
verified)

9.II.1909

9.II.1909

T. Bainbrigge Fletcher, R. N.

T. Bainbrigge Fletcher, R. N.

(gift of Mr. Scott, Cambridge
24.IV.1909) L.E.R. det.Pinned specimen. Cited: Robinson
(1926: 114). Thomas Bainbrigge
Fletcher (1878-1950) educated at
Dulwich College. In 1911 appointed
Government Entomologist in Madras.
In 1913 succeeded Maxwell Lefroy as
Imperial Entomologist. Published
extensively on Indian insects,
especially Lepidoptera.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	812	N	812
		RML	109765
	<u>Dermacentor albopictus</u> (sic) 1 ♀ shrivilled		1 ♀ <u>Dermacentor albipictus</u>
	Cow		Cow
	Vancouver, B.C.		Vancouver (49.15 N, 123.08 W) British Columbia, Canada
	Rec'd 1909		Rec'd 1909
	Rec'd from T. Bowhill		Rec'd from T. Bowhill
N	813	N	813
		RML	109766
	<u>Haemaphysalis punctata</u> larvae		32 L <u>Haemaphysalis punctata</u>
	Parent ♀ from Lydd, Kent		Parent ♀ from Lydd (50.57 N, 00.55 E), Kent, England
	Rec'd 9.X.1909		Rec'd 9.X.1909
	Rec'd from L. E. Robinson		Rec'd from L. E. Robinson
	Raised in Watford		Cited: Edwards & Evans (1967: 596).
N	814	N	814
		RML	109767
	<u>Haemaphysalis punctata</u> N's		2 N <u>Haemaphysalis punctata</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	Cambridge		Cambridge (52.13 N, 00.08 E), England
	26.X.1905		26.X.1905
	Rec'd from L. E. Robinson		Rec'd from L. E. Robinson
	Laboratory reared		Catalogue indicates that although the ticks were reared in 1905 they were received in 1909.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	815	N	815
		RML	109768
	<u>Haemaphysalis punctata</u> ♂'s		1 ♂ <u>Haemaphysalis punctata</u>
	Lydd, Kent		Lydd (50.57 N, 00.55 E), Kent, England
	Rec'd 9.X.1909		Rec'd 9.X.1909
	Rec'd from L. E. Robinson		Rec'd from L. E. Robinson
	(2 pinned, dry)		An additional 1 ♂, 3 ♀ are pinned.
N	816	N	816
		RML	109769
	<u>Haemaphysalis punctata</u> ♀'s		11 ♀ <u>Haemaphysalis punctata</u>
	Lydd, Kent		Lydd (50.57 N, 00.55 E), Kent, England
	Rec'd 9.X.1909		Rec'd 9.X.1909
	Rec'd from L. E. Robinson		Rec'd from L. E. Robinson
N	817	N	817
		RML	109770
	<u>Dermacentor</u> ? <u>compactus</u> ♂'s ♀'s		1 ♂, 2 ♀ <u>Dermacentor auratus</u>
	<u>Felis tigris</u>		<u>Panthera tigris</u>
	Maldun, Naini Tal District, U.P. India		Maldun, Naini Tal District (29.12 N, 79.25 E) India
	14-19.II.1907		14-19.II.1907
	(c. w's)		

ORIGINAL DETERMINATIONCURRENT STATUS

N 818a-c

N 818c

RML 109771

Ornithodoros moubata

(a) ♂

(a) MISSING

(b) ♀

(b) MISSING

(c) N

(c) 47 N Ornithodoros moubataResidency of Officer in Charge
of DistrictResidency of Officer in Charge
of DistrictNgara. Marimba District
NyasalandNgara (10.14 S, 34.07 E),
Malawi

Rec'd 11.X.1909

Rec'd 11.X.1909

Rec'd from Dr. H. Hearsey

Rec'd from Dr. H. Hearsey

(818b) 1 ♀ to Prof. R. A. Cooley
V.1928

Cited: Merriman (1911: 171).

N 819

N 819 MISSING

Ornithodoros moubata

Mpumu, Uganda

Rec'd 29.VI.1909

Rec'd from Dr. P. H. Ross

Some to Prof. G. H. Carpenter, Royal
College of Sciences, Dublin 19.I.1910;
Some to G. S. Graham-Smith, Medical
Schools, Cambridge, 19.I.1910; Some
to E. E. Green, Government Entomologist,
Ceylon 19.I.1910; Some to Dr. Dschunkowsky,
Transcaucasia 19.I.1910; Some to Dr.
Edmond Sergeant, N. Africa 19.IV.1910;
Some to Dr. H. de B. Aragão, Brazil
23.I.1910; Some to Dr. J. G. Parham,
Portuguese East Africa 18.IV.1913;
Some to N.Y. National Museum 18.IV.1913.

ORIGINAL DETERMINATIONCURRENT STATUS

N 820

Amblyomma pseudoconcolor ♂, ♀

♂ ex Armadillo (Dasypus sp.)

♀ ex Nothura maculosa, taken as a nymph

Avare State of San Paulo, Brazil, S. America

26.VI.1908

Rec'd from Dr. H. de B. Aragão of the Instituto de Manquinhos Rio de Janeiro, Brazil

To be regarded as co-types

N 820 MISSING

These pinned specimens (1 ♂, 1 ♀) are now in the BMNH collection.

N 821

Amblyomma cooperi ♂♂, ♀ (dried & pinned)

Hydrochoerus capybara

State of Rio, Brazil, S. America

20.X.1908

A. lutzi Aragão, as noted by the Tatter on the original label

N 821

RML 109772

2 ♂, 1 ♀ Amblyomma cooperi

Hydrochoerus hydrochaeris

Estado do Rio de Janeiro (22.00 S, 42.30 W), Brazil

20.X.1908

H. B. Aragão

ORIGINAL DETERMINATIONCURRENT STATUS

N 822

Amblyomma mantiquirens
1 ♂, 1 ♀ (dried & pinned)Peccary (Dicotyles torquatus)Herem, State of Rio, Brazil
S. America

24.VII.1907

N 822 MISSING

These pinned specimens (1 ♂,
1 ♀) are now in the BMNH
collection. They are Amblyomma
naponense.

N 823

Amblyomma braziliense 1 ♂, 1 ♀
(dried & pinned)Peccary (Dicotyles torquatus)Itabira, State of Minas,
Brazil, S. America

8.IV.1908

N 823 MISSING

These pinned specimens (1 ♂,
1 ♀) are now in the BMNH collection.

N 824

Amblyomma badium ♂♂, ♀
= sublaeveManis sp.

Kuala Lumpur

det. by Neumann
ex A. E. Shipley's coll.
TYPES of badium Nn

N 824 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 825

N 825

RML 109773

Amblyomma integrum 3 ♀3 ♀ Amblyomma integrum

Nettle hedge

Nettle hedge

Gopkuda, S. Lake
Chilka, IndiaGopkuda, S. Lake Chilka
(19.46 N, 85.20 E), India

1907

1907

Annandale

Nelson Annandale

(Sent to C. W.)

Cited: Robinson (1926: 114).

N 826

N 826

RML 109774

Ixodes hexagonus 2 ♀'s2 ♀ Ixodes rubidusCoypu, (Myopotamus coypus)Myocastor coypus

S. America

S. America

Rothschild 189

ORIGINAL DETERMINATIONCURRENT STATUS

N 827

N 827

RML 109775

Argas brumpti nymphs (2)2 N Argas brumpti

Sudan

Sudan

Sent 27.VII.1909

Sent 27.VII.1909

Sent by Harold H. King, Gov't
Entomologist, Gordon Memorial
College, Khartoum

Sent by Harold H. King, Gov't
Entomologist, Gordon Memorial
College, Khartoum

Taken "at the foot of some Rocky
Hills known as Gebelein. One bit
me on the forearm and for several
days I had a blue mark like a bruise
just under 3 inches long and two
inches wide. I don't know what they
usually feed on but the hills harbour
leopard, warthog, honey badgers, conies
and hyaenas".

King (1911: 128) cited 9 immature
specimens and discussed his reaction
to the bite of this tick.

N 828

N 828

RML 109776

Argas vespertilionis larvae2 L Argas vespertilionis

Bat

Bat

Khartoum

Khartoum (15.36 N, 32.32 E),
Sudan

VII.1909

VII.1909

Sent by H. H. King 29.VII.1909

Sent by H. H. King 29.VII.1909

King (1911: 128) cited 8 larvae
in this collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N 829, a

N 829, a

RML 109777

Dermacentor rhinocerotis 1 ♂
 (a) Amblyomma hippopotamense 1 ♀

1 ♂ Dermacentor rhinocerinus
 (a) 1 ♀ Dermacentor rhinocerinus

Vegetation

Vegetation

Azzar

Azzar, Sudan (locality not
 verified). There is a pond at
 11.56 N, 32.49 E and a waterhole
 at 11.43 N, 23.57 E both spelled
 Azzaraf which are possible
 localities.

29.VII.1909

29.VII.1909

H. H. King

H. H. King

"There is a quantity of game there
 including elephant and rhino, also
 hippos"

King (1911: 128) indicated
 a large number of both sexes
 were collected.

N 830

N 830

RML 109778

Boophilus australis ♂'s ♀'s
 (latter gorged)

1 ♂, 3 ♀ Boophilus microplus

Cattle

Cattle

Cape Colony

Cape Colony, Republic of South
 Africa

III.1906

III.1906

C. P. Lounsbury

C. P. Lounsbury

ORIGINAL DETERMINATIONCURRENT STATUS

N 831

N 831

RML 109779

Boophilus australis larvae
unfed71 L Boophilus microplus

Cape Colony

Cape Colony, Republic of South
Africa

III.1906

III.1906

C. P. Lounsbury

C. P. Lounsbury

Probably progeny of N 830

N 832

N 832

RML 109780

Boophilus australis ♀'s7 ♂ Boophilus microplus

N. S. Wales

N. S. Wales, Australia

1906

1906

From Mr. Pound

From Mr. Pound

ex E. G. Wheeler's collection

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	833	N	833
		RML	109781
	<u>Boophilus caudatus</u> ♂, ♀		1 ♂, 1 ♀ <u>Boophilus microplus</u>
	Buffalo		Buffalo
	Penang		Penang (05.24 N, 100.19 E), Malaysia
	Rec'd 16.VII.1906		Rec'd 16.VII.1906
	Rec'd from E. A. Shipley		Rec'd from E. A. Shipley
N	834	N	834 MISSING
	<u>Boophilus decoloratus</u> ♂'s, ♀		
	Cape Colony		
	III.1906		
	C. P. Lounsbury		
N	835	N	835
		RML	109782
	<u>Amblyomma integrum</u> 2 ♂'s		2 ♂ <u>Amblyomma integrum</u>
	Calves		Calves
	Guindy, Saidapet, South India		Guindy, Saidapet (13.02 N, 80.13 E), India
	IX.1909		IX.1909
	From Capt. W. S. Patton, I.M.S.		From Capt. W. S. Patton, I.M.S.
			Walter Scott Patton (1876-1960), born in India, Medical Degree, Univ. of Edinburgh. Entered Indian Medical Service 1902, spent 20 years in that country. In WW I was entomologist to the Mesopotamia Expeditionary Force. 1927-1937 Dutton Memorial Professor of Entomology, Univ. of Liverpool & Liverpool School of Tropical Medicine. He wrote 2 volumes on insects, ticks, mites and venomous animals of medical & veterinary importance. Cited: Robinson (1926: 114).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	836	N	836
		RML	109783
	<u>Rhipicephalus appendiculatus</u> larvae		277 L <u>Rhipicephalus appendiculatus</u>
	Cape Colony, South Africa		Cape Colony, Republic of South Africa
	1906		1906
	Rec'd from Mr. C. P. Lounsbury, Gov't Entomologist, Cape Town, South Africa		Rec'd from Mr. C. P. Lounsbury, Gov't Entomologist, Cape Town, South Africa
N	837	N	837
		RML	109784
	<u>Rhipicephalus appendiculatus</u> N's		5 N <u>Rhipicephalus appendiculatus</u>
	Cape Colony, South Africa		Cape Colony, Republic of South Africa
	1906		1906
	Rec'd from Mr. C. P. Lounsbury, Gov't Entomologist, Cape Town, South Africa		Rec'd from Mr. C. P. Lounsbury, Gov't Entomologist, Cape Town, South Africa
N	838	N	838
		RML	109785
	<u>Rhipicephalus appendiculatus</u> young ♀'s		3 ♀ <u>Rhipicephalus appendiculatus</u>
	Cape Colony, South Africa		Cape Colony, Republic of South Africa
	1906		1906
	From C. P. Lounsbury, Gov't Entomologist, Cape Town, S. Africa		From C. P. Lounsbury, Gov't Entomologist, Cape Town, S. Africa

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	839	N	839
		RML	109786
	<u>Rhipicephalus appendiculatus</u> gorged ♀'s		2 ♀ <u>Rhipicephalus appendiculatus</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	1906		1906
	Rec'd from Mr. C. P. Lounsbury, Gov't Entomologist, Cape Town, S. Africa		Rec'd from Mr. C. P. Lounsbury, Gov't Entomologist, Cape Town, S. Africa
N	840	N	840
		RML	109787
	<u>Rhipicephalus capensis</u> larvae, unfed		132 L <u>Rhipicephalus capensis</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From C. P. Lounsbury		From C. P. Lounsbury
N	841	N	841
		RML	109788
	<u>Rhipicephalus capensis</u> larvae gorged. Placed on rabbit 8.X.1906 found gorged 15.X.1906		3 L <u>Rhipicephalus capensis</u>
	Rabbit		Rabbit
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From C. P. Lounsbury		From C. P. Lounsbury

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	842	N	842
		RML	109789
	<u>Rhipicephalus capensis</u> nymphs unfed		28 N <u>Rhipicephalus capensis</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From C. P. Lounsbury		From C. P. Lounsbury
N	843	N	843
		RML	109790
	<u>Rhipicephalus capensis</u> ♂'s ♀'s		2 ♂, 2 ♀ <u>Rhipicephalus capensis</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From C. P. Lounsbury		From C. P. Lounsbury
N	844	N	844
		RML	109791
	<u>Rhipicephalus evertsi</u> N's gorged		9 N <u>Rhipicephalus evertsi</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From Mr. C. P. Lounsbury		From Mr. C. P. Lounsbury

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	845	N	845
		RML	109792
	<u>Rhipicephalus evertsi</u> larvae, unfed		162 L <u>Rhipicephalus evertsi</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From Mr. C. P. Lounsbury		From Mr. C. P. Lounsbury
N	846	N	846
		RML	109793
	<u>Rhipicephalus evertsi</u> adults ♂ ♀		1 ♂, 1 ♀ <u>Rhipicephalus evertsi</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From Mr. C. P. Lounsbury		From Mr. C. P. Lounsbury
N	847	N	847
		RML	109794
	<u>Rhipicephalus evertsi</u> ♂, ♀		3 ♂, 5 ♀ <u>Rhipicephalus evertsi</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	5.VI.1906		5.VI.1906
	From Mr. C. P. Lounsbury		From Mr. C. P. Lounsbury

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	848	N	848 MISSING
	<u>Rhipicephalus evertsi</u> ♂, ♀		
	From Mr. E. G. Wheeler 1906		
N	849	N	849
		RML	109795
	<u>Rhipicephalus nitens</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	1906		1906
	From Mr. C. P. Lounsbury		From Mr. C. P. Lounsbury
N	850	N	850
		RML	109796
	<u>Rhipicephalus oculatus</u> 1 ♂, 1 ♀		1 ♀ <u>Rhipicephalus oculatus</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	1906		1906
	From Mr. C. P. Lounsbury		From Mr. C. P. Lounsbury
			There is a blue COTYPE label in this vial; however, I do not believe this ♀ is a type specimen. The vulva has been removed and mounted on a slide.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	851	N	851
		RML	109797
	<u>Rhipicephalus pulchellus</u> ♂		1 ♂ <u>Rhipicephalus pulchellus</u>
	Received 1906		Received 1906
	Received from Mr. E. G. Wheeler		Received from Mr. E. G. Wheeler
N	852	N	852
		RML	109798
	<u>Rhipicephalus sanguineus</u> ♀		1 ♀ <u>Rhipicephalus sanguineus</u>
	Campagna Romana		Campagna di Roma (41.50 N, 12.35 E), Italy
	1906		1906
	Given by Pocock		Given by Pocock
	ex E. G. Wheeler		
N	853	N	853
		RML	109799
	<u>Rhipicephalus sanguineus</u> larvae		11 L <u>Rhipicephalus sanguineus</u>
	Rabbit		Rabbit
	India		India
	From Mr. Lefroy		From Mr. Lefroy
	Sent to C. W.		Harold Maxwell-Lefroy (1877-1925). From 1899-1903, Entomologist, Imperial Department of Agriculture for the West Indies, chiefly in Barbados; 1903-1910 Imperial Entomologist for India; 1912- 1925 Professor of Entomology, Imperial College of Science, South Kensington; died of exposure to insecticide gasses in his London laboratory.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	854	N	854
		RML	109800
	<u>Rhipicephalus sanguineus</u> nymphs		11 N <u>Rhipicephalus sanguineus</u>
	India		India
	From Mr. Lefroy		From Mr. Lefroy
	Sent to C. W.		
N	855	N	855
		RML	109801
	<u>Rhipicephalus sanguineus</u> ♂'s		3 ♂ <u>Rhipicephalus sanguineus</u>
	India		India
	From Mr. Lefroy		From Mr. Lefroy
	Sent to C. W.		
N	856	N	856
		RML	109802
	<u>Rhipicephalus sanguineus</u> ♀'s (young)		1 ♂, 6 ♀ <u>Rhipicephalus sanguineus</u>
	India		India
	From Mr. Lefroy		From Mr. Lefroy
	Sent to C. W.		
N	857	N	857
		RML	109803
	<u>Rhipicephalus sanguineus</u> ♀'s (gorged)		4 ♀ <u>Rhipicephalus sanguineus</u>
	India		India
	From Mr. Lefroy		From Mr. Lefroy
	Sent to C.W.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 858

N 858

RML 109804

Rhipicephalus simus ♂'s, ♀'s4 ♂, 4 ♀ Rhipicephalus senegalensis

West Africa

West Africa

1908

1908

From Dr. W. M. Graham

From Dr. W. M. Graham

N 859

N 859

RML 109805

Rhipicephalus simus larvae26 L plus 138 L (in 2 vials)
Rhipicephalus simus

Cape Colony, S. Africa

Cape Colony, Republic of South
Africa

III.1906

III.1906

From Mr. C. P. Lounsbury

From Mr. C. P. Lounsbury

N 860

N 860

RML 109806

Rhipicephalus simus ♂'s, ♀'s1 ♂, 3 ♀ Rhipicephalus simus

Cape Colony, S. Africa

Cape Colony, Republic of South
Africa

III.1906

III.1906

From Mr. C. P. Lounsbury

From Mr. C. P. Lounsbury

ORIGINAL DETERMINATIONCURRENT STATUS

N 861

N 861

RML 109807

Boophilus australis
(ii) N's2 ♂ Boophilus microplus
(ii) 4 N Boophilus microplus
(in separate vial)

Calves

Calves

Belgaum, Bombay Presidency
IndiaBelgaum (15.52 N, 74.30 E),
India

Rec'd 2.X.1909

Rec'd 2.X.1909

From Capt. F.H.C. Hutchinson
I.M.S., (D.T.M.H. Cambridge)From Capt. F.H.C. Hutchinson
I.M.S., (D.T.M.H. Cambridge)

N 862

N 862

RML 109808

Rhipicephalus sanguineus3 ♀ Rhipicephalus sanguineus

Calves

Calves

Belgaum, Bombay Presidency,
IndiaBelgaum (15.52 N, 74.30 E),
India

Rec'd 2.X.1909

Rec'd 2.X.1909

From Capt. F.H.C. Hutchinson
I.M.S. (D.T.M.H. Cambridge)From Capt. F.H.C. Hutchinson
I.M.S. (D.T.M.H. Cambridge)

ORIGINAL DETERMINATIONCURRENT STATUS

N 863

N 863

RML 109809

Haemaphysalis bispinosa8 ♂, 17 ♀ Haemaphysalis bispinosa

Calves

Calves

Belgaum, Bombay Presidency,
IndiaBelgaum (15.52 N, 74.30 E),
India

Rec'd 2.X.1909

Rec'd 2.X.1909

From Capt. F.H.C. Hutchinson
I.M.S. (D.T.M.H. Cambridge)From Capt. F.H.C. Hutchinson
I.M.S. (D.T.M.H. Cambridge)1 ♂, 1 ♀ to Dr. H. de B. Aragão,
Brazil, 23.I.1910

Cited: Nuttall & Warburton (1915: 432).

N 864

N 864

RML 109810

Hyalomma aegyptium9 ♂, 3 ♀, 1 N Hyalomma anatolicum
anatolicum

Calves

Calves

Belgaum, Bombay Presidency,
India

Belgaum (15.52 N, 74.30 E), India

Rec'd 2.X.1909

Rec'd 2.X.1909

From Capt. F.H.C. Hutchinson
I.M.S. (D.T.M.H. Cambridge)From Capt. F.H.C. Hutchinson
I.M.S. (D.T.M.H. Cambridge)

ORIGINAL DETERMINATIONCURRENT STATUS

N 865

N 865 MISSING

Rhipicephalus sanguineus

Foxhound

Belgaum, Bombay Presidency,
India

Rec'd 2.X.1909

From Capt. F.H.C. Hutchinson

N 866

N 866 MISSING

Rhipicephalus haemaphysaloides

Foxhound

Belgaum, Bombay Presidency,
India

Rec'd 2.X.1909

From Capt. F.H.C. Hutchinson

1 ♂, 1 ♀ to Capt. W. S. Patton
14.I.1910; 1 ♂, 1 ♀ to Col. A.
Alcock FRS, London School of
Tropical Medicine 26.I.1910; 1 ♂,
1 ♀ to Dr. S. Hadwen, British
Columbia, Canada 10.X.1913; 1 ♂,
1 ♀ in general collection British
Museum (N.H.)

1 ♂, 1 ♀ of this collection are
now in the RML collection
(RML 110162) and the general collection
of the British Museum (Nat. Hist.).

ORIGINAL DETERMINATIONCURRENT STATUS

N 867

Rhipicephalus haemaphysaloides

Foxhound

Belgaum, Bombay Presidency,
India

Rec'd 2.X.1909

Capt. F.H.C. Hutchinson

1 ♂, 1 ♀ to C. Strickland, Malaya

N 867

RML 109811

2 ♂, 9 ♀ Rhipicephalus haemaphysaloides

Foxhound

Belgaum (15.52 N, 74.30 E),
India

Rec'd 2.X.1909

Capt. F.H.C. Hutchinson

N 868

Rhipicephalus haemaphysaloides

Foxhound

Belgaum, Bombay Presidency,
India

Rec'd 2.X.1909

Capt. F.H.C. Hutchinson

N 868

RML 109812

7 ♂, 1 ♀ Rhipicephalus haemaphysaloides

Foxhound

Belgaum (15.52 N, 74.30 E), India

Rec'd 2.X.1909

Capt. F.H.C. Hutchinson

N 869

Haemaphysalis bispinosa

Foxhound

Belgaum, Bombay Presidency, India

Rec'd 2.X.1909

Capt. F.H.C. Hutchinson

N 869

RML 71477

1 ♀ Haemaphysalis bispinosa
2 ♀ Haemaphysalis intermedia

Foxhound

Belgaum (15.52 N, 74.30 E), India

Rec'd 2.X.1909

Capt. F.H.C. Hutchinson

Cited: Nuttall & Warburton (1915: 432).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	870	N	870 MISSING
	<u>Haemaphysalis leachi</u>		
	Foxhound		
	Belgaum, Bombay Presidency, India		
	Rec'd 2.X.1909		
	Capt. F.H.C. Hutchinson		
	871-886. Ticks rec'd 19.X.1909 from Col. Sir David Bruce, C.B., F.R.S., Sleeping Sickness Commission, Uganda, Africa.		
N	871, a, b	N	871b
		RML	109813
	(871) <u>Amblyomma variegatum</u> ♂'s ♀'s N		(871) MISSING
	(a) <u>Rhipicephalus appendiculatus</u> ♂, ♀'s		(a) MISSING
	(b) <u>Boophilus decoloratus</u>		(b) 3 ♀ <u>Boophilus decoloratus</u>
	Healthy country cattle		Healthy country cattle
	Nagongera in Budama (Lat. 0° 4, Long. 33°55'32" E)		Nagongera (00.46 N, 34.01 E), Uganda
	26.VII.1909		26.VII.1909
N	872, a, b	N	872, b
		RML	109814
	(872) <u>Amblyomma variegatum</u> ♂'s, ♀'s, N's		(872) 3 N <u>Amblyomma variegatum</u>
	(a) <u>Boophilus decoloratus</u>		(a) MISSING
	(b) <u>Rhipicephalus appendiculatus</u> ♂'s		(b) 4 ♂, 3 ♀ <u>Rhipicephalus appendicu- latus</u>
	Cattle		Cattle
	Kome Island, Uganda		Kome Island (00.06 S, 32.45 E), Uganda
	30.VIII.1909		30.VIII.1909

ORIGINAL DETERMINATIONCURRENT STATUS

N 873, a, a', b, c

N 873b

RML 109815

(873) Amblyomma variegatum ♂'s

(873) MISSING

(a) Rhipicephalus appendiculatus
♂'s, ♀'s

(a) MISSING

(a') Rhipicephalus evertsi ♂'s, ♀'s

(a') MISSING

(b) Boophilus decoloratus(b) 2 ♀ Boophilus decoloratus(c) Haemaphysalis leachi ♂'s, ♀'s

(c) MISSING

Buyago District, in S. Buddu,
Lake Shore

Buyaga (00.30 S, 31.48 E), Uganda

6.VIII.1909

6.VIII.1909

N 874a - f + f2

N 874a, c, f2
RML 109816(a) Boophilus decoloratus(a) 9 ♀ Boophilus decoloratus(b) Haemaphysalis leachi 2 ♀'s

(b) MISSING

(c) Amblyomma eburneum 2 ♂'s(c) 1 ♂ Amblyomma lepidum(d) Rhipicephalus appendiculatus

(d) MISSING

(e) Rhipicephalus evertsi

(e) MISSING

f + f2 Rhipicephalus simus(f2) 16 ♀ Rhipicephalus appendiculatus

"Villages marked on map"

"Villages marked on map", Uganda

12.VIII.1909

12.VIII.1909

From E. G. Morris, Kumi, Bukedi

From E. G. Morris, Kumi, Bukedi

Robinson (1926: 119) stated the
locality of 874c as Kumi Bukedi.

<u>ORIGINAL DETERMINATION</u>	<u>CURRENT STATUS</u>
N 875, a-c	N 875a, b
	RML 109817
(875) <u>Amblyomma variegatum</u> ♂'s (a) <u>Boophilus decoloratus</u> (b) <u>Rhipicephalus appendiculatus</u> (c) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s	(875) MISSING (a) 5 ♀ <u>Boophilus decoloratus</u> (b) 24 ♂, 38 ♀ <u>Rhipicephalus appendiculatus</u> (c) MISSING
Cattle	Cattle
Kiango, Buddu, Uganda	Kiango, Buddu County (00.25 S, 31.40 E), Uganda
1.VIII.1909	1.VIII.1909
D. Bruce	D. Bruce
875b 1♂, 1 ♀ to Richard Hancock, England 16.VI.1918; 875b some (sex/stage not stated) to Prof. O. Dubsacq, Montpellier, France, 10.II.1914.	
N 876	N 876 MISSING
<u>Haemaphysalis leachi</u> ♂'s, ♀'s	
Dog	
Mpumu, Chagwe, Uganda	
23.VI.1909	
D. Bruce	
1 ♂, 1 ♀ to Royal College of Surgeons, London, 20.XII.1909; 1 ♂, 1 ♀ to Prof. G. H. Carpenter, Royal College of Sciences, Dublin 19.I.1910; 1 ♂, 1 ♀ to Dr. G. S. Graham-Smith, Medical Schools, Cambridge, 19.I.1910; 1 ♂, 1 ♀ to E. E. Green (F.E.S.) Government Entomologist, Ceylon 19.I.1910; 1 ♂, 1 ♀ to Dschunkowsky, Transcaucasus 19.I.1910; 1 ♂, 1 ♀ to Dr. Edmond Sergent, Algeria, N. Africa 19.V.1910; 1 ♂, 1 ♀ to Dr. H. de B. Aragão, Brazil 23.I.1910; 1 ♂, 1 ♀ to Dr. J. H. Ashworth, Edinburgh 22.VI.1910; some (sex/stage not stated) to Dr. Longin Navas, Zaragoza, Spain 28.V.1913.	

<u>ORIGINAL DETERMINATION</u>	<u>CURRENT STATUS</u>
N 879, a-c	N 879b, c
	RML 109819
(879) <u>Amblyomma variegatum</u> ♂'s (a) <u>Amblyomma variegatum</u> ? 1 N (b) <u>Boophilus decoloratus</u> (c) <u>Rhipicephalus appendiculatus</u>	(879) MISSING (a) MISSING (b) 1 ♀ <u>Boophilus decoloratus</u> (c) 2 ♂, 2 ♀ <u>Rhipicephalus appendiculatus</u>
Zebra	<u>Equus burchelli</u>
Kamakeken, Uganda	Kamakekera, Uganda (locality not verified)
11.VIII.1909	11.VIII.1909
879c 1♂ 1 ♀ to Prof. B. Galli-Valerio, Lausanne, Switzerland, 14.III.1912; 1 ♂, 1 ♀ to Prof. Dr. M. Miyajima, Tokio, Japan 7.III.1912; 1 ♂, 1 ♀ to Dr. G. L. Tuck, Tientsien, China 17.II.1912; 1 ♂, 1 ♀ to A. H. Cockayne, Wellington, N.Z.; some (sex/ stage not stated) to Dr. Longin Navas, Zaragoza, Spain 28.V.1913.	879c Pinned specimens.
N 880	N 880
	RML 109820
<u>Amblyomma</u> sp. gorged larvae, rotten	28 L <u>Amblyomma</u> sp.
Oribi antelope	<u>Ourebia ourebi</u>
Uganda	Uganda
VI.1909	VI.1909
D. Bruce	D. Bruce

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	881, a-d	N	881, a-d
		RML	109821
	(881) <u>Rhipicephalus appendiculatus</u>		(881) 52 ♂, 9 ♀ <u>Rhipicephalus appendiculatus</u>
	(a) <u>Boophilus decoloratus</u>		(a) 4 ♀, 1 N <u>Boophilus decoloratus</u>
	(b) <u>Rhipicephalus appendiculatus</u> ? N's		(b) 8 N <u>Rhipicephalus appendiculatus</u>
	(c) <u>Amblyomma</u> sp. N's		(c) 6 N <u>Amblyomma variegatum</u>
	(d) <u>Haemaphysalis</u> sp. larvae		(d) 6 L <u>Haemaphysalis</u> sp.
	Calves		Calves
	Mpumu, Chagwe, Uganda		Mpumu (00.12 N, 32.50 E), Uganda
	VIII.1909		VIII.1909
	D. Bruce		D. Bruce
N	882	N	882
		RML	109822
	<u>Amblyomma</u> sp. N's		6 N <u>Amblyomma</u> sp.
	Scaly anteater		<u>Manis</u> sp.
	Uganda		Uganda
	2.IX.1909		2.IX.1909
	D. Bruce		D. Bruce
N	883, a	N	883, a MISSING
	(883) <u>Amblyomma variegatum</u> 2 ♂'s & N's		
	(a) <u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s & N's		
	Waterbuck		
	Kamakeken, Uganda		
	11.VIII.1909		
	D. Bruce		

ORIGINAL DETERMINATION

N 884, b, c

(884) Amblyomma variegatum 2 ♂'s
 (b) Rhipicephalus appendiculatus
 ♀'s, N's
 (c) Haemaphysalis parvata

Bushbuck

Uganda

30.III.1909

D. Bruce

N884a Boophilus was crossed out

N 885a-d

(a) Amblyomma sp. N's
 (b) Haemaphysalis leachi
 (c) Rhipicephalus appendiculatus
 (d) Rhipicephalus evertsi

Goat

Mpumu, Chagwe, Uganda

22.VI.1909

D. Bruce

CURRENT STATUS

N 884 b, c

RML 88416

(884) MISSING
 (b) 3 ♀, 16N Rhipicephalus sp.
 (c) 2 ♀ Haemaphysalis parvata
Tragelaphus scriptus

Uganda

30.III.1909

D. Bruce

Cited: Nuttall & Warburton (1915: 421).

N 885c

RML 109823

(a) MISSING
 (b) MISSING
 (c) 1 ♂, 1 ♀, 3 N Rhipicephalus appendiculatus
 (d) MISSING

Goat

Mpumu (00.12 N, 32.50 E), Uganda

22.VI.1909

D. Bruce

ORIGINAL DETERMINATIONCURRENT STATUS

N 886, a-c

N 886a, b

RML 109824

(886) Amblyomma variegatum 1 ♂

(886) MISSING

(a) Amblyomma sp. N's(a) 2 N Amblyomma variegatum(b) Boophilus decoloratus(b) 8 ♀ Boophilus decoloratus(c) Rhipicephalus appendiculatus ♂'s
♀'s, N's

(c) MISSING

Cattle

Cattle

... alabulema, Buddu, Uganda

...alabulema, District of Buddu
(00.25 S, 31.40 E), Uganda

VIII.1909

VIII.1909

D. Bruce

D. Bruce

N 887

N 887

RML 109825

Ornithodoros moubata ♂'s, ♀'s, N56 ♂, 6 ♀, 20 N Ornithodoros moubata

Uganda

Uganda

Rec'd 19.X.1909

Rec'd 19.X.1909

From P. H. Ross, M.D.

From P. H. Ross, M. D.

Received dead

1 ♂, 1 ♀, 2 N O. moubata were
presented to Dr. F. C. Bishop and
are now in the RML collection
(Bishopp 3238)Some (number not stated) to
W. F. Cooper 22.I.1910; 2 ♂, 3 N,
eggs to Prof. R. A. Cooley V.1928.

ORIGINAL DETERMINATIONCURRENT STATUS

N 888

N 888

RML 109826

Hyalomma aegyptium 2 ♂'s, 1 ♀2 ♂, 1 ♀ Hyalomma rufipes

Giraffe

Giraffa camelopardalis

Ogo, Senegal

Ogo, Senegal (locality not verified)
There are two populated places and
one campsite with the name Ogo in
Senegal

PPL 14.35 N, 15.50 W

PPL 15.33 N, 13.17 W

CMP 14.45 N, 15.03 W

ex. Riegenbach coll.

ex. Riegenbach coll.

Given by Hon. Walter Rothschild
by African Entomol Cttee (rec'd
19.X.1909 from Guy A. K. Marshall)

N 889

N 889 MISSING

Amblyomma variegatum ♂'s, ♀'s, N's
ex lots 871, 872, 873, 875, 877,
879, 883, 884, 886 q.v.

ORIGINAL DETERMINATIONCURRENT STATUS

N 890

N 890

RML 86306

Haemaphysalis bispinosa ♂'s, ♀'s20 ♂, 30 ♀ Haemaphysalis bispinosa

Horse

Horse

Chin Hills, India

Chin Hills (22.30 N, 93.30 E),
Burma

1909

1909

From H. Lefroy

From H. Lefroy

(C.W.)

1 ♂, 1 ♀ to Capt. W. S. Patton
14.I.1910; 1 ♂, 1 ♀ to N.Y. National
Museum 18.IV.1913; 1 ♂, 1 ♀ to Dr. S.
Hadwen, British Columbia, Canada 10.X.1913.Cited: Nuttall & Warburton (1915;
431).

N 891

N 891

RML 109827

Haemaphysalis bispinosa 1 ♀1 ♀ Haemaphysalis bispinosa

Cow

Cow

Ceylon

Sri Lanka

1906

1906

ex Wheler collection

ex Wheler collection

Cited: Nuttall & Warburton (1915:
432).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	892	N	892
		RML	109828
	<u>Haemaphysalis bispinosa</u>		7 ♂, 7 ♀ <u>Haemaphysalis bispinosa</u>
	<u>Canis familiaris</u>		<u>Canis familiaris</u>
	Luthaia Mts., Assam		Probably Lushai Hills (23.10 N, 92.50 E), Assam, India
	[R295]		Spelling is Luthaia in catalogue and Southaia in Nuttall & Warburton (1915: 431). I believe it should be spelled as in N576 & N582.
N	893	N	893
		RML	109829
	<u>Haemaphysalis flava</u> ♂, ♀♀		1 ♂, 2 ♀ <u>Haemaphysalis flava</u> (tentative ID)
	♂ off dog		off dog
	♀ (small) off cattle		(small) off cattle
	♀ (large) off horse		(large) off horse
	♂ Ise and ♀♀ Hiroshima, Japan		Ise Province (34.30 N, 136.25 E), and Hiroshima (34.24 N, 132.27 E) Japan
	Rec'd 1908		Rec'd 1908
	Rec'd from W. Dönitz		Rec'd from W. Dönitz
			Cited: Nuttall & Warburton (1915: 410).

ORIGINAL DETERMINATIONCURRENT STATUS

N 894

Haemaphysalis leachi N's

Cape Colony, S. Africa

Rec'd III.1906

Rec'd from C. P. Lounsbury

N 894

RML 109830

5 N Haemaphysalis leachi

Cape Colony, Republic of South Africa

Rec'd III.1906

Rec'd from C. P. Lounsbury

Nuttall & Warburton (1915: 472) indicated a dog as host

N 895

Haemaphysalis leachi ♂, ♀

1902

G.H.F.N.

N 895

RML 109831

4 ♂, 1 ♀ Haemaphysalis leachi

Cape Colony, Republic of South Africa

1902

C. P. Lounsbury

From fed nymphs (above information on vial label). Nuttall & Warburton (1915: 472) indicated a dog as host.

N 896

Haemaphysalis leachi larvae

Raised in Cambridge

IV.1904

G.H.F.N.

N 896 MISSING

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	897	N	897
		RML	109832
<u>Haemaphysalis campanulata</u> ♂'s, ♀'s TYPES		91 ♂, 4 ♀ <u>Haemaphysalis campanulata</u> Lectotype and paralectotype	
Chinese dogs		Chinese dogs	
Mongolia		Mongolia	
Rec'd 14.X.1906		Rec'd 14.X.1906	
Major M. L. Hearn		Major M. L. Hearn	
Rec'd from Col. Skinner, R.A.M.C.		Warburton (1908: 513), original description	
1 ♂, 1 ♀ to L. O. Howard, USDA, 21.V.1909; 1 ♂, 1 ♀ to Prof. Dönitz, Berlin; 1 ♂, 1 ♀ to Col. A. Alcock FRS, London School of Tropical Medicine, Royal Albert Dock. 26.I.1910.		There is an additional 1 ♂, 1 ♀ mounted on a slide that are not included in the above totals. The RML collection contains 2 ♂, 1 ♀ of this collection, probably from specimens sent to L. O. Howard. Cited: Nuttall & Warburton (1915: 492); Mortiz & Fischer (1981: 344). Lectotype designated: Keirans & Brewster (1981: 160).	
N	898	N	898
		RML	109833
<u>Haemaphysalis punctata</u> ♂'s, ♀'s		2 ♀ <u>Haemaphysalis punctata</u>	
Rec'd 1902		Warwick (52.17 N, 01.35 W), England	
Rec'd from E. G. Wheeler		Rec'd 1902	
		Rec'd from E. G. Wheeler	
		Locality information from vial label.	

<u>ORIGINAL DESCRIPTION</u>		<u>CURRENT STATUS</u>	
N	899	N	899
		RML	109834
	<u>Haemaphysalis punctata</u>		3 ♂ <u>Haemaphysalis punctata</u>
			Sheep
	Lydd, Kent		Lydd (50.57 N, 00.55 E), Kent, England
	23.III.1905		23.III.1905
	Via W. F. Cooper		Via W. F. Cooper
			Nuttall & Warburton (1915: 384) cited the host as sheep.
N	900	N	900
		RML	109835
	<u>Haemaphysalis punctata</u> ♂'s, ♀'s		8 ♂, 12 ♀, 3 N <u>Haemaphysalis punctata</u>
	Cow with English redwater		Cow with English redwater
			Cambridge (52.13 N, 00.08 E), England
	XI.1906		XI.1906
N	901	N	901
		RML	109836
	<u>Haemaphysalis punctata</u> larvae (gorged)		+ 200 N, + 50 L <u>Haemaphysalis punctata</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	Raised out in Cambridge		Cambridge (52.13 N, 00.08 E), England
	X-XI.1905		X-XI.1905
	G.H.F.N.		G.H.F. Nuttall

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	902	N	902
		RML	109837
<u>Haemaphysalis punctata</u> larvae		183 L <u>Haemaphysalis punctata</u>	
Cambridge		Cambridge (52.13 N, 00.08 E), England	
25.X.1905		25.X.1905	
G.H.F.N.		G.H.F. Nuttall	
Raised in laboratory.			
N	903	N	903
		RML	109838
<u>Hyalomma syriacum</u> ♂'s		4 ♂ <u>Hyalomma aegyptium</u>	
1906		1906	
ex E. G. Wheeler collection		ex E. G. Wheeler collection	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	904	N	904
		RML	109839
	<u>Hyalomma aegyptium</u> 2 ♂'s, 1 ♀		1 ♂, 1 ♀ <u>Hyalomma dromedarii</u>
	Northern Baluchistan		Northern Baluchistan, Pakistan
	Dr. Maynard & Capt. McMahon		Dr. Maynard & Capt. McMahon
N	905	N	905
		RML	109840
	<u>Hyalomma aegyptium</u> larvae		± 250 L. <u>Hyalomma</u> sp.
	Cape Colony		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From C. P. Lounsbury		From C. P. Lounsbury
	[2 slides]		Slide missing
N	906, a, b	N	906, a, b
		RML	71484
	(906) <u>Haemaphysalis bispinosa</u>		(906) 2 ♀ <u>Haemaphysalis bispinosa</u>
	(a) <u>Rhipicephalus haemaphysaloides</u>		(906) 4 ♀ <u>Haemaphysalis intermedia</u>
	(b) <u>Hyalomma aegyptium</u>		(a) 1 ♂, 1 ♀ <u>Rhipicephalus</u> <u>haemaphysaloides</u>
	Madras, India		(b) 5 ♀ <u>Hyalomma brevipunctata</u>
	26.X.1909		Madras (13.05 N, 80.17 E), India
	From Capt. W. S. Patton, I.M.S.		26.X.1909
			From Capt. W. S. Patton, I.M.S.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	907	N	907
		RML	109841
	<u>Hyalomma aegyptium</u> N		1 ♂, 1 ♀ <u>Hyalomma rufipes</u>
	India		India
	ex C. Warburton coll.		ex C. Warburton coll.
			Cecil Warburton (1854-1958) Close associate of G.H.F. Nuttall and well known economic entomologist and tick authority.
N	908	N	908 MISSING
	<u>Ornithodoros megnini</u> N		
	1906		
	ex E. G. Wheeler collection		
N	909	N	909
		RML	109842
	<u>Ornithodoros savignyi</u> N		6 N <u>Ornithodoros savignyi</u>
	1906		1906
	ex E. G. Wheeler collection		ex E. G. Wheeler collection

ORIGINAL DETERMINATIONCURRENT STATUS

N	910	N	910
		RML	109843
	<u>Ornithodoros savignyi</u> ♀		1 ♀ <u>Ornithodoros savignyi</u>
	Camels		Camels
	Aden		Aden, India (locality not verified)
	19.I.1906		19.I. 1906
	Rec'd. from Dr. C.W. Daniels (London)		Rec'd from Dr. C.W. Daniels (London)
	[mounted in balsam on a slide]		Specimen no longer on slide. Locality data from vial label.
N	911	N	911
		RML	109844
	<u>Ornithodoros savignyi</u> N		15 N <u>Ornithodoros savignyi</u>
	1906		1906
	ex E. G. Wheeler collection		ex E. G. Wheeler Collection
N	912	N	912
		RML	109845
	<u>Ornithodoros savignyi</u> ♀'s, ♂'s, N		1 ♀, 1 N <u>Ornithodoros savignyi</u>
			Republic of South Africa
	V. 1906		V. 1906
	ex C.P. Lounsbury collection		ex C.P. Lounsbury collection
			Locality taken from vial label

ORIGINAL DETERMINATIONCURRENT STATUS

N 913

Ornithodoros talaje var. capensis

Penguin's nest on guano

Island off Cape Colony

V.1906

ex Lounsbury collection

N 913

RML 109846

1 ♂ Ornithodoros capensis

Penguin's nest on guano

Island off Cape Colony, Republic
of South Africa

V.1906

ex Lounsbury collection

Vial label indicates island is
west of Cape Colony.

N 914

Dermacentor reticulatus ♂, ♀

1905

ex E. G. Wheeler collection

N 914

RML 109847

1 ♂, 1 ♀ Dermacentor reticulatus

1905

ex E. G. Wheeler collection

Specimens mounted on a slide.

N 915

Ixodes bicornis

America

No particulars

N 915

RML 109848

1 ♀ Ixodes boliviensis

America

No particulars

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	916	N	916
	<u>Ixodes hexagonus</u> N	RML	109849
	13.I.1901		1 N <u>Ixodes hexagonus</u>
	ex E.G. Wheler collection		13.I.1901
	Rec'd 1906		ex E.G. Wheler collection
N	917	N	917
	<u>Ixodes hexagonus</u> ♀'s	RML	109850
	Stoat		2 ♀ <u>Ixodes hexagonus</u>
	22.XI.1901		<u>Mustela erminea</u>
	ex E.G. Wheler collection		22.XI.1901
	Rec'd 1906		ex E.G. Wheler collection
N	918	N	918
	<u>Ixodes hexagonus</u> ♀	RML	105904
	Hedgehog		1 ♀ <u>Ixodes hexagonus</u>
	Grantchester, Cambs.		<u>Erinaceus europaeus</u>
	15.VIII.1906		Grantchester (52.10 N, 00.06 E)
	From N.D.F. Pearce		Cambs., England
	♀ with curious scutum from 125a		15.VIII.1906
			From N.D.F. Pearce
			This specimen is in a jar marked
			"Tick abnormalities" with two notes:
			(1) "Not worth describing"
			(2) "Not worth figuring"

ORIGINAL DETERMINATIONCURRENT STATUS

N	919	N	919
		RML	109851
	<u>Ixodes pilosus</u> unfed larvae		49 L <u>Ixodes pilosus</u> (tentative ID)
	Cape Colony		Cape Colony, Republic of South Africa
	Rec'd III.1906		Rec'd III.1906
	Rec'd from Mr. C. P. Lounsbury		Rec'd from Mr. C. P. Lounsbury
	[larvae mounted on 2 slides in balsam]		Slides missing Cited: Nuttall & Warburton (1911: 225), fig. 221.
N	920	N	920
		RML	109852
	<u>Ixodes pilosus</u> fed larvae		2 L <u>Ixodes pilosus</u> (tentative ID)
	Cape Colony		Cape Colony, Republic of South Africa
	Rec'd III.1906		Rec'd III.1906
	Rec'd from Mr. C. P. Lounsbury		Rec'd from Mr. C. P. Lounsbury
			Cited: Nuttall & Warburton (1911: 225). 1 L of this collection was given to Dr. R. A. Cooley and is now in the RML Collection. Edwards & Evans (1967: 595).
N	921	N	921
		RML	109853
	<u>Ixodes pilosus</u> unfed nymphs		14 N <u>Ixodes pilosus</u> (tentative ID)
	Cape Colony		Cape Colony, Republic of South Africa
	Rec'd III.1906		Rec'd III.1906
	Rec'd from Mr. C. P. Lounsbury		Rec'd from Mr. C. P. Lounsbury
	[2 N's in balsam on slides]		Cited: Nuttall & Warburton (1911: 224, fig. 220). 1 N of this collec- tion was given to Dr. R. A. Cooley and is now in the RML Collection.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	922	N	922
		RML	109854
	<u>Ixodes pilosus</u> fed nymphs		3 N <u>Ixodes pilosus</u> (tentative ID)
	Cape Colony		Cape Colony, Republic of South Africa
	Rec'd III. 1906		Rec'd III. 1906
	Rec'd from Mr. C.P. Lounsbury		Rec'd from Mr. C.P. Lounsbury
			Cited: Nuttall & Warburton (1911: 225).
N	923	N	923 MISSING
	<u>Ixodes pilosus</u> ♂'s, ♀'s		
	Cape Colony		
	Rec'd. III. 1906		
	Rec'd. from Mr. C.P. Lounsbury		
N	924	N	924 MISSING
	<u>Ixodes pilosus</u> ♀'s		
	Rec'd 1906		
	ex Wheeler collection		
	[a ♀ in balsam on slide]		
	1 ♀ to Dr. E. Pavlovsky,		
	Leningrad 9 X. 1925		
N	925	N	925 MISSING
	<u>Ixodes pilosus</u> ♀'s		
	Rec'd. 1906		
	ex Wheeler collection		

ORIGINAL DETERMINATIONCURRENT STATUS

N 926

Ixodes pilosus ♀'s, ♂'s
in copula

Rec'd. 1906

ex Wheler collection

N 926

RML 109855

1 ♂, 1 ♀ Ixodes lewisi

Rec'd 1906

ex Wheler collection

Cited: Nuttall & Warburton (1911: 225)
as I. pilosus.

N 927

Ixodes pilosus ♂'s

14 XI. 1904

From C.P. Lounsbury ex
Wheler collection

N 927 MISSING

N 928

Ixodes rarus ♂'s, ♀'s

Man & dog

Kumasi, Ashanti, Gold Coast

From Dr. Wm. Graham

1 ♀ to J. de Meza, Zomba Nyasaland

N 928 MISSING

Arthur & Burrow (1957: 496) cite
1 ♂, 2 ♀ I. rarus and p. 505, 7 ♀
I. pseudorarus (sic). Both collections
are now missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N 929

Ixodes ricinus

Dallyhaise, Co. Cavan

5.VII.1905

From J. W. Steen

[3 larvae, mounted in balsam on a slide, fig'd in Ticks, part II]

N 929

RML 109856

19 L Ixodes ricinus

Dallyhaise, Co. Cavan (53.55 N, 07.15 W) Ireland

5.VII.1905

From J. W. Steen

Slides missing. Cited and figured by Nuttall & Warburton (1911: 154, fig. 147, 148).

N 930

Ixodes ricinus larvae, gorged

Hedgehog

Cambridge

1906

G.H.F.N.

N 930

RML 109857

9 L Ixodes ricinus

Erinaceus europaeus

Cambridge (52.13 N, 00.08 E) England

1906

G.H.F. Nuttall

Cited: Nuttall & Warburton (1911: 149, fig. 141).

N 931

Ixodes ricinus nymphs (unfed)

Hedgehog

Cambridge

1906

G.H.F.N.

[2 N mounted in balsam on a slide]

N 931

RML 66942

3 N Ixodes ricinus

Erinaceus europaeus

Cambridge (52.13 N, 00.08 E) England

1906

G.H.F. Nuttall

An additional nymph of this collection was sent to the U.S. National Museum and is now in the RML collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N 932

Ixodes ricinus nymphs (gorged)

Hedgehog

Cambridge

1906

G.H.F.N.

N 932

RML 109858

14 N Ixodes ricinusErinaceus europaeus

Cambridge (52.13 N, 00.08 E) England

1906

G.H.F. Nuttall

N 933

Ixodes ricinus ♂'s, ♀'s

Coilesson, Scotland

15.IV.1905

From P. MacKenzie

Det. by G.H.F.N.

[7 slides, balsam-mounts, ♂'s, ♀'s
and their mouthparts]

N 933

RML 109859

3 ♂ Ixodes ricinusCoilesson, Scotland (locality not
verified). A possible locality is
Collieston (57.21 N, 01.56 W)

15.IV.1905

From P. MacKenzie

Slides missing.

Cited: Nuttall & Warburton (1911:
148, fig. 139; 149, fig. 140; 150,
fig. 144).

N 934

Ixodes ricinus ♀

Coilesson, Scotland

15.IV.1905

From P. MacKenzie

1 ♀ to Dr. Lajos Gozony, Univ.
Budapest, Hungary 23.VI.1914.1 ♂ to Dr. A. Watkins Pitchford,
Army Veterinary School, Thornhill,
Aldershot 12.X.1922

N 934 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

1 ♂ to L.P.W. Renouf, Biol. Dept.,
University College, Cork, Ireland,
12.X. 1922
1 ♂ to W.A. Pool, Indian Civil
Veterinary Service, 12.X. 1922
1 ♂ to Dr. Wm. Parry Morgan,
Publ. Hlth. Lab. Cardiff, Wales
12 X. 1922
1 ♂ to J.E.M. Mellor, Malvern College,
Malvern 16.X. 1922
1 ♂ to Prof. A. Bettencourt, Just.
Camara Pestana, Lisbon, 7.XI. 1922

N 935

Ixodes putus N's, ♀'s gorged

1906

ex E.G. Wheeler collection

N 935

RML 109860

1 ♀, 10 N Ixodes uriae

1906

ex E.G. Wheeler collection

Cited: Nuttall & Warburton (1911; 260).

N 936

Ixodes putus N's, ♂'s

1903

ex E.G. Wheeler collection

N 936

RML 109861

1 N Ixodes rothschildi

1903

ex E.G. Wheeler collection

Cited: Nuttall & Warburton (1911; 260)
as Ixodes putus

N 937

Ixodes putus ♂'s, ♀'s

1906

ex E.G. Wheeler collection

N 937

RML 109862

1 ♂, 2 ♀ Ixodes uriae

1906

ex E.G. Wheeler collection

Cited: Nuttall & Warburton (1911; 260).

ORIGINAL DETERMINATIONCURRENT STATUS

N 938

Amblyomma petersi 1 ♀

Rhinoceros

Uganda, B.E. Africa

1909

H.G. Simpson

(ex "G.M." coll.)

N 938

RML 109863

1 ♀ Amblyomma rhinocerotis

Rhinoceros

Uganda

1909

H.G. Simpson

N 939a, b

(939) Ornithodoros moubata ♂'s, ♀'s, Ns(a) Amblyomma marmoreum(b) Aponomma laeve 4 ♂'s, ♀'s

Uganda

Sent 8.X.1909

From Dr. H. Bayon

N 939a, b

RML 109864

(939) MISSING

(a) 1 ♀ Amblyomma nuttalli(b) 1 ♂, 3 ♀ Aponomma latum

Uganda

Sent 8.X.1909

From Dr. H. Bayon

Cited as A. marmoreum by Robinson
(1926: 89, 90); Cited: Santos Dias
(1958: 513).

<u>ORIGINAL DESCRIPTION</u>		<u>CURRENT STATUS</u>	
N	940	N	940
		RML	109865
	<u>Amblyomma marmoreum</u> 4♂'s, 2♀'s, 4N's		3♂, 2 ♀, 3 N <u>Amblyomma nuttalli</u>
	Viper, <u>Bitis gabonica</u>		<u>Bitis gabonica</u>
	Uganda		Uganda
	Sent 8.X.1909		Sent 8.X.1909
	From Dr. H. Bayon		From Dr. H. Bayon
	Snake det. by Col. A. Alcock, F.R.S.		Cited as <u>A. marmoreum</u> by Robinson (1926: 90).
N	941, a	N	941, a
		RML	109866
	(941) <u>Amblyomma petersi</u> ♂'s, ♀'s		(941) 3♀ <u>Amblyomma rhinocerotis</u>
	(a) <u>Dermacentor rhinocerotis</u>		(a) 2 ♂, 4 ♀ <u>Dermacentor rhinocer- inus</u>
	Off long grass		Off long grass
	2 days journey from Bussu Meros County, Uganda		2 days journey from Bussu Meros County, Uganda (locality not verified)
	Sent 8.X.1909		Sent 8.X.1909
	From Dr. H. Bayon		From Dr. H. Bayon
			Cited as <u>A. petersi</u> by Robinson (1926: 264).

ORIGINAL DETERMINATIONCURRENT STATUS

N	942 a-c	N	942 a-c
		RML	109867
	(a) <u>Hyalomma aegyptium</u>		(a) 1 ♀ <u>Hyalomma marginatum isaaci</u>
	(b) <u>Haemaphysalis leachi</u> var. <u>indica</u> ♀		(b) 1 ♀ <u>Haemaphysalis indica</u>
	(c) <u>Rhipicephalus haemaphysaloides</u>		(c) 1 ♀ <u>Rhipicephalus haemaphysaloides</u>
	<u>Herpestes mungo</u>		<u>Herpestes</u> sp.
	India		India
	Sent 14.X.1909		Sent 14.X.1909
	Sent by Capt. W.S. Patton		Sent by Capt. W.S. Patton
			(b) Cited: Hoogstraal (1970a: 1013).
N	943	N	943
		RML	109868
	<u>Haemaphysalis punctata</u> ♀		1 ♀ <u>Haemaphysalis chordeilis</u>
	Cattle		Cattle
	Winnipeg, Manitoba, Canada		Winnipeg (49.53 N, 97.10 W), Manitoba, Canada
	9.XI.1909		9.XI.1909
	S. Hadwen, D.V. Sci.		S. Hadwen, D.V. Sci.
	(also, 1 ♀ mounted on slide)		Slide missing
			Semour A. Hadwen (1877-1947) Born in England, received Veterinary degree from McGill University, Montreal; 1929-1942 Director, Department of Veterinary Science, Ontario Research Foundation. Conducted many studies of ticks and warble flies.
			Incorrectly cited as N 934 in Nuttall & Warburton (1915: 376).

ORIGINAL DESCRIPTIONCURRENT STATUS

N 944

N 944

RML 109869

Amblyomma lepidum 2 ♂'s2 ♂ Amblyomma lepidum Syntypes

Cattle

Cattle

Zanzibar

Zanzibar, Tanzania

Presented 20.XII.1909

Presented 20.XII.1909

Presented by W. Dönitz (Berlin)

Presented by W. Dönitz (Berlin)

There is a blue COTYPE label in the vial containing these two ♂ specimens.

Dönitz (1909: 460), original description.

Cited: Robinson (1926: 97).

N 945

N 945

RML 109870

Amblyomma gemma 2 ♂, 1 ♀, (1 ♂ dry)2 ♂, 1 ♀ Amblyomma gemma plus 1 ♂ pinned possible Syntypes

Giraffe

Giraffa camelopardalis

Ngomberenga, Mkatta-Steppe

Ngomberenga, Mkata Plain
(07.00 S, 37.15 E), Tanzania

Presented 20.XII.1909

Presented 20.XII.1909

Presented by W. Dönitz (Berlin)

Presented by W. Dönitz (Berlin)

Dönitz (1906: 458) original description, p. 460 lists host as cattle and giraffe and Zanzibar and German East Africa as localities. Robinson (1926: 122) stated that Dönitz's original material was from a giraffe, Mkatta-Steppe but he doesn't list this collection (which he incorrectly numbered N 965) as being part of the type series.

ORIGINAL DETERMINATIONCURRENT STATUS

N 946

N 946

RML 109871

Amblyomma furcula 1 ♂, 2 ♀, 15 N1 ♂, 2 ♀, 16 N Amblyomma neumanni

Found free

Found free

Salta, Argentina, S. America

Salta (24.47 S, 65.25 W), Argentina

Presented 20.XII.1909

Presented 20.XII.1909

Presented by W. Dönitz

Presented by W. Dönitz

These are possible type specimens of Amblyomma furcula which was described by Dönitz (1909: 478) and listed as being found free in Argentina. Cited: Robinson (1926: 127), fig. 53.

N 947

N 947

RML 109872

Amblyomma eburneum ♂, ♀
1 ♂ pinned1 ♂, 1 ♀ Amblyomma eburneum

Cattle

Cattle

Muengembo, German East Africa

Muengembo, Tanzania (locality not verified)

Presented 20.XII.1909

Presented 20.XII.1909

Presented by W. Dönitz

Presented by W. Dönitz

Cited: Robinson (1926: 119); Cited as Amblyomma gemma by Santos Dias (1958: 503). [The posterior accessory stripes of the ♂ do not reach the median stripe but the ♀ scutum is extensively dark (J.E.K.)]. The pinned ♂ is now in the BMNH collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N	948	N	948
		RML	109873
	<u>Rhipicephalus appendiculatus</u> ♂ abnormal, 2 anal orifices		1 ♂ <u>Rhipicephalus appendiculatus</u>
	Cape Colony		Cape Colony, Republic of South Africa
	Rec'd. 20.XII. 1907		Rec'd 20.XII. 1907
	Rec'd. from C.P. Lounsbury		Rec'd from C.P. Lounsbury
			This specimen is in a jar marked "Tick Abnormalities" Cited and figured in Nuttall (1914a: 250, fig. 1)
N	949	N	949
		RML	109874
	<u>Ornithodoros savignyi</u>		15 N <u>Ornithodoros savignyi</u>
	Near Manmad, Deccan		Near Manmad (20.15 N, 74.27 E) Deccan upland, India
	X. 1909		X. 1909
	Sent by Capt. E.D.W. Greig, I.M.S.		Sent by Capt. E.D.W. Greig, I.M.S.
	Capt. Greig of the Bombay Bacteriological Laboratory, Paril, Bombay, India. Rec'd 29. XI. 1909		
	12.I. 1910 Captain Greig (4.XI. 1909) reports in his letter of these ticks: "The history is that the ticks were creeping about on the grass and bit men, both Europeans and natives freely. The ticks bit during the day & also at night. They were numerous on the ground under a chappar (shed) where people came to watch their crops at night."		

ORIGINAL DETERMINATIONCURRENT STATUS

N 950

N 950

RML 109875

Haemaphysalis sp. L & N1 N, 2 L Haemaphysalis sp.

Off grass

Off grass

Hakgalla, Ceylon

Hakgalla (07.08 N, 80.08 E), Sri Lanka

IX. 1909

IX. 1909

E.E. Green

E.E. Green

(E.E. Green of Royal Botanic
Gardens, Peradeniya Ceylon.
Rec'd. 22 XI. 1909)

N 951, a, b

N 951, a, b

RML 109876

(951) Hyalomma aegyptium(951) 5 ♂, 2 ♀ Hyalomma truncatum(a) Rhipicephalus neavei(a) 7 ♂ Rhipicephalus kochi(b) Rhipicephalus simus(b) 11 ♂, 4 ♀ Rhipicephalus simus

Eland Antelope

Taurotragus oryxBua River, Marimba District
Nyasaland

Bua River, (12.45 S, 34.16 E), Malawi

20.IX. 1909

20.IX. 1909

Dr. E.H.A. Pask

Dr. E.H.A. Pask

Sent by Dr. H. Hearsey, P.M.O.
Nyasaland

ORIGINAL DETERMINATIONCURRENT STATUS

N 952, a

N 952, a

RML 105621

(952) Hyalomma aegyptium N's
 (a) Rhipicephalus sanguineus

(952) 53 N Hyalomma sp.
 (a) 3 ♂ Rhipicephalus sulcatus

Wild hare

Wild hare

Bua River, Marimba District
 Nyasaland

Bua River (12.45 S, 34.16 E), Malawi

27.IX. 1909

27.IX. 1909

Dr. E.H.A. Pask

Dr. E.H.A. Pask

Forwarded by Dr. H. Hearsey, P.M.O.
 Nyasaland

N 953, a, b,

N 953, a, b

RML 109877

(953) Rhipicephalus pulchellus
 (a) Rhipicephalus sanguineus
 (b) Rhipicephalus simus

(953) 1 ♂, 1 ♀ Rhipicephalus pulchellus
 (a) 1 ♀, 1 N Rhipicephalus sanguineus
 (b) 1 ♂ Rhipicephalus simus
 1 ♀ Rhipicephalus sanguineus

Dog

Dog

Upper Sheikh (4500 Ft.)
 British Somaliland

Upper Sheikh (09.56 N, 45.13 E), Somali
 Democratic Republic

6.XI. 1909

6.XI. 1909

A.E. Drake-Brockman

A.E. Drake-Brockman

From Guy A.K. Marshall
 Rec'd. 20 XII. 1909 (ex letter
 13 I. 1910 from Mr. Marshall)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	954, a	N	954, a
		RML	109878
	(954) <u>Haemaphysalis hystrix</u>		(954) 2 ♀ <u>Haemaphysalis semermis</u>
	(a) <u>Haemaphysalis koningsbergeri</u>		(a) 1 ♂, 1 ♀ <u>Haemaphysalis koningsbergeri</u>
	Dog		Dog
	Upper Sarawak, Borneo		Sarawak
	XI. 1909		XI. 1909
	Rec'd from J.C. Moulton of Sarawak Museum, Jan. 1910		Rec'd. from J.C. Moulton of Sarawak Museum, Jan. 1910
			(954) Cited Hoogstraal et al (1965b: 435).
N	955	N	955
		RML	109879
	<u>Boophilus australis</u>		8 ♂, 207 ♀, 5 N <u>Boophilus microplus</u>
	Cattle		Cattle
	Sarawak, Borneo		Sarawak
	Sent 4.X. 1909		Sent 4.X. 1909
	Sent by J.C. Moulton		Sent by J.C. Moulton
	N.B. 6♂'s, 5♀ in separate tube from many ♀'s.		Above collection in two vials; one vial containing 6 ♂, 5 ♀ and called, I believe "transparent"
N	956	N	956 MISSING
	<u>Amblyomma petersi</u>		
	Rhinoceros		
	White Nile		
	Sent 1.XII. 1909		
	Sent by Col. A. Alcock F.R.S., (London School Tropical Medicine)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	957	N	957 MISSING
	<u>Amblyomma petersi</u>		
	?Rhinoceros		
	Uganda		
	Sent I.XII.1909		
	Sent by Col. A. Alcock, F.R.S. (London School Tropical Medicine)		
N	958	N	958
		RML	109880
	<u>Amblyomma marmoreum</u>		1 ♂ <u>Amblyomma nuttalli</u>
	Tortoise		Tortoise
	Uganda		Uganda
	Sent 1.XII.1909		Sent 1.XII.1909
	Sent by Col. A. Alcock, F.R.S. (London School Tropical Medicine)		Sent by Col. A. Alcock, F.R.S. (London School Tropical Medicine)
			Cited: SantosDias (1958: 513) as 1 ♀ X.1909. Theiler & Salisbury (1959: 115) mistakenly list the date as 1.XII.1900
N	959	N	959
		RML	109881
	<u>Amblyomma marmoreum</u>		1 ♂ <u>Amblyomma sparsum</u>
	Rhinoceros		<u>Diceros bicornis</u>
	British East Africa		Kenya
	Sent 1.XII.1909		Sent 1.XII.1909
	Sent by Col. A. Alcock, F.R.S. (London School Tropical Medicine)		Sent by Col. A. Alcock, F.R.S. (London School Tropical Medicine)
			Theiler & Salisbury (1959: 112) mistakenly list the date as 1900.

ORIGINAL DETERMINATIONCURRENT STATUS

N 960

Amblyomma gemma

Giraffe

British East Africa

Sent 1.XII.1909

Sent by Col. A. Alcock, F.R.S.
(London School Tropical Medicine)

N 960

RML 109882

1 ♂ Amblyomma gemmaGiraffa camelopardalis

Kenya

Sent 1.XII.1909

Sent by Col. A. Alcock, F.R.S.
(London School Tropical Medicine)

Cited: Robinson (1926: 122).

N 961

Ixodes caledonicus 1 ♀

Off rocks below dove's nest

Fast Castle, Scotland

6.IX.1909

Dr. J.H. Ashworth

To be returned to J.H. Ashworth
who sent it with the following
on 21.XII.1909 for identification
(Senders "No. 5")8.XI.1910 & 28.X.1910 Kindly
presented by Messrs. J.F. Cormack
and J. Waterston

N 961

RML 109883

1 ♀ Ixodes caledonicus Lectotype

Off rocks below dove's nest

Fast Castle (55.56 N, 02.14 W), Scotland

6.IX.1909

Dr. J.H. Ashworth

Nuttall (1910: 408), original descrip-
tion with J.H. Ashworth as collector.
Nuttall & Warburton (1911: 200) cited
J.F. Cormack and J. Waterston as collect-
ors with the specimen being sent to
Nuttall by J.H. Ashworth. Lectotype
designated: Keirans & Brewster (1981:
164)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	962	N	962 MISSING
(1) <u>Ixodes unicavatus</u> ♀, N, L			
(2) <u>Ixodes hexagonus</u>			
(1) Cormorant			
(2) Polecat			
(1) Firth of Forth, Scotland			
(2) Rosshire			
(1) 17.XI.1906			
(2) 6.XII.1907			
(1) from Mr. William Evans			
38 Morningside Drive, Edinburgh			
Identified and returned 23.I.1910			
N	963	N	963 MISSING
<u>Ixodes ricinus</u> ♀			
Heifer affected with redwater			
Tavistock, C. Devon			
14.I.1910			
G.H. Gibbings, F.R.C.V.S.			
N	964	N	964
		RML	109884
<u>Amblyomma hebraeum</u> N's		1 ♂, 1 ♀, 4 N <u>Amblyomma hebraeum</u>	
and adults which emerged there from			
Goat		Goat	
Cape Colony		Cape Colony, Republic of South Africa	
Rec'd 6.VII.1908		17.IV., rec'd 6.VII.1908	
Rec'd from C.P. Lounsbury		Rec'd from C.P. Lounsbury	
Engorged as nymphs on goat 365 on		Cited: Robinson (1926: 107).	
day of its death (Heartwater)			

ORIGINAL DETERMINATIONCURRENT STATUS

N 965

Amblyomma personatum ♂

Said to be off rhinoceros

Nairobi, B. E. Africa

Rec'd 11.XII.1909

Rec'd from Col. Alcock, F.R.S.

N 965 MISSING

N 966

Ornithodoros savignyi
♀ (dry, pinned) ♂ ♀♀ N (bottled)

Camel

Near Aden

Rec'd 29.X.1909

Rec'd from Dr. J. H. Ashworth
Zool. Dept., Edinburgh University2 adults to S. Hadwen, British
Columbia, Canada, 10.X.1913

N 966

RML 109885

3 ♂, 10 ♀, 7 N Ornithodoros savignyi

Camel

Peoples Democratic Republic of Yemen

Rec'd 29.X.1909

Rec'd from Dr. J. H. Ashworth, Zool.
Dept., Edinburgh University

N 967

Ornithodoros talaje 8 specimensSan Bernardino, Paraguay,
South America

22.III.1909

From Dr. Karl Fiebrig

ex W. F. Cooper collection
Rec'd 26.I.1910 from W. F. Cooper

N 967

RML 109886

2 ♂, 1 ♀, 3 N Ornithodoros sp.San Bernardino (25.16 S, 57.19 W),
Paraguay

22.III.1909

From Dr. Karl Fiebrig

ORIGINAL DETERMINATIONCURRENT STATUS

N 968

N 968

RML 109887

Ceratixodes putus1 ♂, 2 ♀, 2 N Ixodes uriaeCliffs, Rhosilly, Gower
Glamorganshire 20 miles from SwanseaCliffs, Rhossili (51.35 N, 04.18 W),
Glamorganshire, Wales

15-20.V.1909

15-20.V.1909

Rec'd from Dr. J.W.W. Stephens
(Liverpool School of Tropical Medicine)Rec'd from Dr. J.W.W. Stephens
(Liverpool School of Tropical Medicine)

Dr. Stephens supplies the following history: Guillemots chiefly, razorbills less, and puffins (a few pairs only) breed on the cliffs. The birds were beginning to lay at this period which may account for the few ticks captured. The cliffs are said to be "crawling" with them at other times (later in the season). These found under stones and in cracks in the earth a few inches down. I found one copulating pair in a crack when alive they are about the colour of a Belgian hare, rather greener not so yellow. No larvae were found.

Cited: Nuttall & Warburton (1911: 258, fig. 255; 259, fig. 260; 260).

N 969

N 969

RML 105772

Argas persicus ♂ ♀1♂, 1 ♀ Argas miniatus

1906

1906

ex Wheler's collection

ex Wheler's collection

No particulars

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	970	N	970
		RML	105652
	<u>Argas persicus</u> larvae		26 L <u>Argas persicus</u>
	1906		1906
	ex Wheler's collection		ex Wheler's collection
	No particulars		Three larvae mounted on slides
N	971	N	971
		RML	109888
	<u>Argas persicus</u> adults		3 ♂, 2 N <u>Argas miniatus</u>
	1906		1906
	ex Wheler's collection		ex Wheler's collection
	No particulars		
N	972	N	972
		RML	109889
	<u>Argas persicus</u> adults		3 ♂, 1 N <u>Argas miniatus</u>
	1906		1906
	ex Wheler's collection		ex Wheler's collection
	No particulars		
N	973	N	973
		RML	109890
	<u>Argas persicus</u> unfed larvae		44 L <u>Argas miniatus</u>
	1906		1906
	ex Wheler's collection		ex Wheler's collection
	No particulars		

ORIGINAL DETERMINATIONCURRENT STATUS

N	974	N	974
		RML	109891
	<u>Argas miniatus</u>		12 ♂, 4 ♀, 3 N <u>Argas miniatus</u> (tentative ID, poor specimens)
	1904		1904
	Rec'd from Dr. Borrel, Paris		Rec'd from Dr. Borrel, Paris
	No particulars		
N	975	N	975
		RML	109892
	<u>Argas vespertilionis</u>		1 ♀, 2 N <u>Argas confusus</u>
	Cape Colony, South Africa		Cape Colony, Republic of South Africa
	Rec'd from C.P. Lounsbury		Rec'd from C.P. Lounsbury
			Cited: Hoogstraal (1955b: 593)
N	976	N	976
		RML	109893
	<u>Argas miniatus</u>		4 cast skins <u>Argas</u> sp.
			1904
	No particulars		The date is from the vial label and may associate this collection with N 974

ORIGINAL DETERMINATIONCURRENT STATUS

N	977	N	977
		RML	109894
	<u>Argas persicus</u> adults		4 ♂, 8 ♀, 1 N <u>Argas persicus</u>
	Kasguli, Punjab, India		Kasauli (30.55 N, 76.57 E), India
	25.V.1907		25.V.1907
	Rec'd from Capt. E.D.W. Greig		Rec'd from Capt. E.D.W. Greig
	Some (sex stage not stated) were sent to the following:		
	Prof. Galli-Valerio, Lausanne, Switzerland, 14.III.1912		
	Prof. Dr. M. Miyajima, Tokio, Japan, 7.III.1912		
	Dr. G.L. Tuck, Director, Army Medical College, Tientsin, China 17.II.1910		
	Dr. J.H. Ashworth, Edinburgh 22.VI.1910		
	A.H. Cockayne, Wellington, N.2		
	Dr. Longin Navas, Zaragoza, Spain 28.V.1913		
	Richard Hancock, England, 16.VI.1918		
N	978	N	978
		RML	109895
	<u>Argas persicus</u> larvae		40 L <u>Argas persicus</u>
	Kasguli, Punjab, India		Kasauli (30.55 N, 76.57 E), India
	1.X.1907		1.X.1907
	Parents sent by Capt. E.D.W. Greig		Parents sent by Capt. E.D.W. Greig
N	979	N	979 MISSING
	<u>Argas persicus</u>		
	Kasguli, Punjab, India		
	20.XII.1907		
	Parents sent by Capt. E.D.W. Greig		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	980	N	980
		RML	109896
	<u>Argas persicus</u> gorged larvae		18 L <u>Argas persicus</u>
	Kasguli, Punjab, India		Kasauli (30.55 N, 76.57 E), India
	20.XII.1907		20.V.1907
	Parents sent by Capt. E.D.W. Greig		Parents sent by Capt. E.D.W. Greig
			Date from vial label
N	981	N	981
		RML	109897
	<u>Argas persicus</u> adults		1 ♂, 1 ♀ <u>Argas persicus</u>
	Cairo, Egypt		Cairo (30.03 N, 31.15 E), Egypt
	29.VIII.1906		29.VIII.1906
	Rec'd from Dr. Bitter		Rec'd from Dr. Bitter
			Parents of N 982 and 983
N	982	N	982
		RML	109898
	<u>Argas persicus</u> gorged larvae		2 L <u>Argas persicus</u>
	Cairo, Egypt		Cairo (30.03 N, 31.15 E), Egypt
	1907		1907
	Parents rec'd from Dr. Bitter		Parents rec'd from Dr. Bitter

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	983	N	983
		RML	109899
	<u>Argas persicus</u> N		2 N <u>Argas persicus</u>
	Cairo, Egypt		Cairo (30.03 N, 31.15 E), Egypt
	1907		1907
	Parents rec'd from Dr. Bitter		Parents rec'd from Dr. Bitter
N	984	N	984 MISSING
	<u>Argas miniatus</u> (<u>americanus</u>)		
	1904		
	Rec'd from E. Marchoux, Paris		
N	985	N	985
		RML	109900
	<u>Argas persicus</u> adults		1 ♂, 6 ♀ <u>Argas miniatus</u>
	Rec'd 6.II.1907		Rec'd 6.II.1907
	Rec'd from E. Marchoux, Paris		Rec'd from E. Marchoux, Paris
N	986	N	986 MISSING
	<u>Rhipicephalus sanguineus</u>		
	Dog's ear		
	Suva, Fiji		
	8.XI.1909		
	F.P. Jepson		
	Rec'd 28.II.1910		

ORIGINAL DETERMINATIONCURRENT STATUS

N	987	N	987
		RML	109901
	<u>Amblyomma cyprium</u>		1 ♂ <u>Amblyomma cyprium</u>
	Near Suva, Fiji		Near Suva (18.08 S, 178.25 E), Fiji
	12.XI.1909		12.XI.1909
	Sent to F.P. Jepson		Sent to F.P. Jepson
	Rec'd 28.II.1910		F.P. Jepson (d. 1950) Government Entomologist, Fiji 1909-1919. Deputy Director of Agriculture Ceylon 1919-1940
N	988	N	988
		RML	109902
	<u>Rhipicephalus sanguineus</u>		2 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Suva, Fiji		Suva (18.08 S, 178.25 E), Fiji
	1.XII.1909		1.XII.1909
	F.P. Jepson		F.P. Jepson
	Received 28.II.1910		
N	989	N	989
		RML	109903
	<u>Rhipicephalus sanguineus</u>		1 N <u>Rhipicephalus sanguineus</u>
	Dog's ear		Dog's ear
	Suva, Fiji		Suva (18.08 S, 178.25 E), Fiji
	4.I.1910		4.I.1910
	F.P. Jepson		F.P. Jepson
	Rec'd 28.II.1910		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	990	N	990 MISSING
	<u>Hyalomma aegyptium</u>		
	Dog		
	India		
	Rec'd 11.II.1910		
	Sent by Col. A. Alcock		
N	991	N	991
		RML	109904
	<u>Ixodes angustus</u> 1 ♀		1 ♀ <u>Ixodes angustus</u>
	Squirrel, <u>Sciurus douglasii</u>		<u>Tamiasciurus douglasii</u>
	Mt. Lehman, B.C.		Mt. Lehman (49.07 N, 122.23 W) British Columbia, Canada
	2.XII.1909		2.XII.1909
	Rec'd from S. Hadwen		Rec'd. from S. Hadwen
	Rec'd 15.III.1910		Cited: Nuttall & Warburton (1911: 197).
N	992	N	992
		RML	109905
	<u>Ixodes texanus</u> 1 ♀		1 ♀ <u>Ixodes hearlei</u>
	Coon		<u>Procyon lotor</u>
	Mt. Lehman, B.C.		Mt. Lehman (49.07 N, 122.23 W), British Columbia, Canada
	10.I.1910		10.I.1910
	From S. Hadwen		From S. Hadwen
	Rec'd 15.III.1910		Nuttall & Warburton (1911: 215) figure this specimen and N 270, <u>I. texanus</u> . The specimens are both correct but the captions are beneath the wrong illustrations.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	993	N	993
		RML	109906
	<u>Boophilus australis</u>		23 ♀ <u>Boophilus microplus</u>
	Colombia, S. America		Colombia
			II.1910
			Dr. Gadow
	C.W. det.		Date & collection on vial label
N	994	N	994
		RML	109907
	<u>Amblyomma maculatum</u>		1 ♂, 6 ♀ <u>Amblyomma maculatum</u>
	Cattle		Cattle
	Ambalema, Rio Magdalena, Colombia, South America		Ambalema (04.47 N, 74.46 W), Rio Magdalena, Colombia
			Rec'd II.1910
	C.W. det.		An additional 1 ♀ of this collection is pinned Date on vial label Cited: Robinson (1926: 44).
N	995	N	995
		RML	109908
	<u>Amblyomma cajennense</u>		22 ♂, 13 ♀, 29 N, 68 L <u>Amblyomma cajennense</u>
	Colombia, S. America		Colombia
	Rec'd II.1910		Rec'd II.1910
	Dr. Gadow, F.R.S.		Dr. Gadow, F.R.S.

ORIGINAL DETERMINATIONCURRENT STATUS

N	996	N	996
		RML	109909
	<u>Amblyomma nuttalli</u> COTYPE		1 ♂ <u>Amblyomma nuttalli</u> SYNTYPE
	<u>Varanus</u> or <u>Emys</u>		<u>Varanus</u> or <u>Emys</u>
	German East Africa		Tanzania
	Rec'd 15.III.1910		Rec'd 15.III.1910
	Rec'd from Prof. Dönitz		Rec'd from Prof. Dönitz
	(Daressalam and Bagamojo etc. see Dönitz Über das Zeckengenus <u>Amblyomma</u> Sitzungeber. d. Gesellsch. f. Naturforsch. Freunde No. 8 Jahrg. 1909 p. 469-471, fig. 4 (♀))		Dönitz (1909: 469), original description. Cited: Robinson (1926: 93).
N	997	N	997
		RML	109910
	<u>Amblyomma nuttalli</u> ♀ COTYPE		1 ♀ <u>Amblyomma nuttalli</u> SYNTYPE
	<u>Varanus</u> or <u>Emys</u>		<u>Varanus</u> or <u>Emys</u>
	German East Africa		Tanzania
	Rec'd 15.III.1910		Rec'd 15.III.1910
	Rec'd from Prof. Dönitz		Rec'd from Prof. Dönitz
	Abstract of a letter from Prof. W. Dönitz, dated March ... 1910 regarding <u>Amblyomma nuttalli</u> . Prof. W. Dönitz (Berlin) in his letter (III.1910) states that the ♀ is typical but he is uncertain if the ♂ belongs to the ♀. He assumes that they belong to the same species, because the punctations and ornamentations in general agree and that both were found on cold-blooded animals, <u>Varanus</u> , <u>Emys</u> . As yet he has only succeeded in obtaining 3 ♂ and 3 ♀ of which he has given one pair to the Zoological Museum, Berlin. The ♀ which he sends me is not as clearly marked as his own, but it nevertheless shows the characteristic design very clearly. The ♀ given to the Zoological Museum, Berlin, is much darker		Dönitz (1909: 469), original description. Cited: Robinson (1926: 93).

ORIGINAL DETERMINATIONCURRENT STATUS

than the one sent to me. (He notes that he has tried various ways for bringing out the design in specimens of Amblyomma which have grown dark, but that he has had very irregular results. On the whole, simple immersion in water appears to be best. He asks if we have had better results)

signed G.H.F. Nuttall

N	998	N	998	MISSING
	<u>Ixodes ricinus</u> ♂ & ♀ fed in copula			
	Pointer dog			
	Azazea, Algeria			
	13.III.1910			
	G.H.F. Nuttall			
N	999	N	999	
		RML	109911	
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		1 ♂, 3 ♀ <u>Rhipicephalus sanguineus</u>	
	Dog		Dog	
	Biskra, Algeria		Biskra (34.51 N, 05.44 E), Algeria	
	22.III.1910		22.III.1910	
	Collected by schoolboys		Collected by schoolboys	
N	1000	N	1000	
		RML	109912	
	<u>Rhipicephalus sanguineus</u>		6 ♀ <u>Rhipicephalus sanguineus</u>	
	dog (hunting)		Dog (hunting)	
	Biskra, Algeria		Biskra, (34.51 N, 05.44 E), Algeria	
	22.III.1910		22.III.1910	
	Collected by schoolboys		Collected by schoolboys	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1001	N	1001
		RML	109913
	<u>Rhipicephalus sanguineus</u>		4 ♂, 3 ♀ <u>Rhipicephalus sanguineus</u>
	Dog (hunting)		Dog (hunting)
	Biskra, Algeria		Biskra (43.51 N, 05.44 E), Algeria
	22.III.1910		22.III.1910
	Collected by schoolboys		Collected by schoolboys
N	1002	N	1002 MISSING
	<u>Rhipicephalus sanguineus</u> 1 ♂		
	In native mud hut		
	Old Biskra, Algeria		
	18.III.1910		
	G.H.F. Nuttall		
	Found with bed bugs		
N	1003	N	1003
		RML	109914
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		38 ♂, 15 ♀, 1 N <u>Rhipicephalus sanguineus</u>
	Dog (mongrel)		Dog (mongrel)
	Old Biskra		Biskra (34.51 N, 05.44 E), Algeria
	18.III.1910		18.III.1910
	G.H.F. Nuttall		G.H.F. Nuttall
	Mostly on neck and shoulders		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1004	N	1004 MISSING
	<u>Hyalomma aegyptium</u> 2 ♂'s		
	Camel		
	Biskra, Algeria		
	18.III.1910		
	G.H.F. Nuttall		
	About anus (all that could be found)		
N	1005	N	1005
		RML	109915
	<u>Hyalomma aegyptium</u> 2 ♀'s		2 ♀ <u>Hyalomma dromedarii</u>
	Camel		<u>Camelus dromedarius</u>
	Biskra		Biskra (34.51 N, 05.44 E), Algeria
	20.III.1910		20.III.1910
	Collected by schoolboys under direction of S. Muh'd Okbi (teacher)		Collected by schoolboys under direction of S. Muh'd Okbi (teacher)
N	1006	N	1006 MISSING
	<u>Hyalomma aegyptium</u> 1 ♀		
	Camel		
	Biskra, Algeria		
	20.III.1910		
	Collected by schoolboys under direction of S. Muh'd Okbi (teacher)		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1007	N	1007 MISSING
	<u>Hyalomma aegyptium</u> ♂ ♀		
	Camel		
	Biskra, Algeria		
	20.III.1910		
	Collected by schoolboys under direction of S. Muh'd Okbi (teacher)		
N	1008	N	1008
		RML	109916
	<u>Argas persicus</u>		2 ♂, 5 N <u>Argas persicus</u>
	Found on pine timber		Found on pine timber
	Biskra, Algeria		Biskra, (34.15 N, 05.44 E) Algeria
	21.III.1910		21.III.1910
	Collected by schoolboys under direction of S. Muh'd Okbi (teacher)		Collected by schoolboys under direction of S. Muh'd Okbi (teacher)
N	1009	N	1009
		RML	109917
	<u>Argas persicus</u>		2 ♂, 2 ♀, 2 N <u>Argas persicus</u>
	Fowl		Fowl
	Biskra, Algeria		Biskra (34.15 N, 05.44 E), Algeria
	20.III.1910		20.III.1910
	Collected by schoolboys under direction of S. Muh'd Okbi (teacher)		Collected by schoolboys under direction of S. Muh'd Okbi (teacher)

Ticks received 16 February 1910 from Dr. A. T. Stanton, Institute for Medical Research, Kuala Lumpur, Federated Malay States:

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1010	N	1010
		RML	109918
	<u>Boophilus australis</u> ♂'s, ♀'s		8 ♂, 33♀, 6 N <u>Boophilus microplus</u>
	Siamese & Indian bullocks		Siamese & Indian bullocks
	Various districts of Negri Sembilan		State of Negri Sembilan (02.45 N, 102.10 E), Malaysia
	Rec'd 16.II.1910		Rec'd 16.II.1910
	Rec'd from Dr. A. T. Stanton		Rec'd from Dr. A. T. Stanton
			Ambrose Thomas Stanton (1865-1946) formerly Director of Government Laboratories in Malaya, then Chief Medical Advisor to the Colonial Office. He was in large part responsible for discovering the cause of Beri-Beri. As an entomologist he was interested in the morphology of Anopheline larvae.
N	1011	N	1011
		RML	109919
	<u>Boophilus australis</u> ♂'s, ♀'s (large lot)		28 ♀ <u>Boophilus microplus</u>
	Bullocks		Bullocks
	Just arrived from Siam quarantine station		Quarantine station, Malaysia
	Rec'd 16.II.1910		Rec'd 16.II.1910
	Rec'd from Dr. A. T. Stanton		Rec'd from Dr. A. T. Stanton

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1012	N	1012
		RML	109920
	<u>Boophilus australis</u> 1 ♂		1 ♂ <u>Boophilus microplus</u>
	Dog		Dog
	Negri Sembilan		State of Negri Sembilan (02.45 N, 102.10 E), Malaysia
	Rec'd 16.II.1910		Rec'd 16.II.1910
	Rec'd from Dr. A. T. Stanton		Rec'd from Dr. A. T. Stanton
	ex tube 1013		
N	1013	N	1013
		RML	109921
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		16 ♂, 20 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Negri Sembilan		State of Negri Sembilan (02.45 N, 102.10 E), Malaysia
	Rec'd 16.II.1910		Rec'd 16.II.1910
	Rec'd from Dr. A. T. Stanton		Rec'd from Dr. A. T. Stanton
N	1014	N	1014
		RML	109922
	<u>Haemaphysalis wellingtoni</u> 1 ♀		1 ♀ <u>Haemaphysalis wellingtoni</u>
	Domestic fowl		Domestic fowl
	Federal Malay States		Malaysia
	Rec'd 16.II.1910		Rec'd 16.II.1910
	Rec'd from Dr. A. T. Stanton		Rec'd from Dr. A. T. Stanton
			Cited: Nuttall & Warburton (1914: 481).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1015	N	1015
		RML	109923
	<u>Haemaphysalis proxima</u> ♀'s		2 ♀ <u>Haemaphysalis cornigera</u>
	Siamese bullock		Siamese bullock
	Mantin, Negri Sembilan		Mantin (02.49 N, 101.54 E), Negri Sembilan, Malaysia
	Rec'd 16.II.1910		Rec'd 16.II.1910
	Rec'd from Dr. A. T. Stanton		Rec'd from Dr. A. T. Stanton
N	1016	N	1016
		RML	109924
	<u>Amblyomma helvolum</u> 1 ♀, 2 N (♀ mutilated)		1 ♀ <u>Amblyomma helvolum</u>
	Snake (<u>Zamenis korros</u>) according to Wilkinson's Dictionary		<u>Ptyas korros</u>
	Federated Malay States		Kuala Lumpur (03.10 N, 101.42 E), Malaysia
	Rec'd 16.II.1910		Rec'd 16.II.1910
	Rec'd from Dr. A. T. Stanton		Rec'd from Dr. A. T. Stanton
			Collecting locality from Robinson (1926: 219).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1017a, b

(a) Aponomma gervaisi var.
lucasi 2 ♂'s(b) Amblyomma helvolum 4 ♂'sVaranus salvator

Singapore

Rec'd 16.II.1910

Rec'd from Dr. A. T. Stanton

1 ♂ of 1017b sent to
C. Strickland, Malaya

N 1017a, b

RML 109925

(a) 5 ♂ Aponomma varanensis(b) 3 ♂ Amblyomma helvolumVaranus salvator

Republic of Singapore

Rec'd 16.II.1910

Rec'd from Dr. A. T. Stanton

♂ total of 1017b includes 1 pinned
specimen

(b) Cited: Robinson (1926: 219).

N 1018

Amblyomma larvae

Rec'd 16.II.1910

Rec'd from Dr. A. T. Stanton

Known as "chemperas," common in
jungle, said to inflict painful
wounds

N 1018 MISSING

Ticks sent 10.II.1910 by Prof. Harald Seidelin, Director de los Laboratorios del Hospital O'Horan, Mérida, Yucatán, Mexico

ORIGINAL DETERMINATION

CURRENT STATUS

N 1019

N 1019

RML 109926

Boophilus australis 1♀

1 ♀ Boophilus microplus

Cow in herd affected with
piroplasmosis

Cow in herd affected with piroplasmosis

Mérida, Yucután, Mexico

Mérida (20.58 N, 89.37 W), Yucután,
Mexico

Sent 10.II.1910

Sent 10.II.1910

Sent by Prof. H. Seidelin

Sent by Prof. H. Seidelin

Harald Seidelin (1878-1932). Born in Denmark, went to Mexico in 1904 and worked on yellow fever. Liverpool School of Tropical Medicine 1911-1915. From 1915 until his death worked in the Belgian Congo.

N 1020

N 1020 MISSING

Boophilus australis ♂'s, ♀'s

From field in which cattle were
to go

Mérida, Yucután, Mexico

Sent 10.II.1910

Sent by Prof. H. Seidelin

ORIGINAL DETERMINATIONCURRENT STATUS

N 1021

N 1021

RML 109927

Rhipicephalus sanguineus ♂'s, ♀'s2 ♀, 2 N Rhipicephalus sanguineus

Healthy dog

Healthy dog

Mérida, Yucután, Mexico

Mérida (20.58 N, 89.37 W), Yucután,
Mexico

Sent 10.II.1910

Sent 10.II.1910

Sent by Prof. Harald Seidelin

Sent by Prof. Harald Seidelin

N 1022

N 1022

RML 109928

Ornithodoros turicata11 ♂, 8 ♀, 10 N Ornithodoros turicata

Aguascalientes, Mexico

Aguas Calientes (16.26 N, 95.28 W),
Mexico

Rec'd 8.III.1910

Rec'd 8.III.1910

Rec'd from Dr. R. Findeisen

Rec'd from Dr. R. Findeisen

Gathered in a corral where pigs are kept, by a patient who claims that an ugly infiltrated ulcer on his hand was caused by their bites. This is a common story. "Roofs are often covered with earth from the corral back of the house. If this dirt contains the insect or its eggs, sooner or later (in the instance of a trustworthy neighbor, 7 years) the room becomes uninhabitable, the tick falling on the occupants while asleep." Fumigation with sulphur and steam are not able to kill the pest. ---they call it here "turicata" The ticks were rec'd. alive but were left until 22nd when all but 3 were found dead - the rest pickled.

2 (sex/stage not stated) to Prof.
E. Brumpt, Paris.

2 (sex/stage not stated) to Dr. E.
Pavlovsky, Leningrad, 9.X.1925.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1023	N	1023
		RML	109929
	<u>Rhipicephalus sanguineus</u> ♂, ♀, N's		7 ♂, 3 ♀, 45 N <u>Rhipicephalus sanguineus</u>
	Dog - ears, body, paws		Dog - ears, body, paws
	Lan or Eastern group of Fijian Islands		Lan or Eastern group of Fijian Islands
	23.II.1910		23.II.1910
	F. P. Jepson at Lomaloma		F. P. Jepson at Lomaloma
			Found in this tick collection were 2 ♀ <u>Ctenocephalides felis felis</u>
N	1024	N	1024
		RML	109930
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		21 ♂, 8 ♀ <u>Hyalomma marginatum</u> 3 ♂ <u>Hyalomma anatolicum excavatum</u>
	Sheep		Sheep
	Hammam-Meskoutine		Hammam Meskoutine (36.27 N, 07.16 E), Algeria
	25.IV.1910		25.IV.1910
	P. Deschabert		P. Deschabert
	On 8 of 10 sheep together with 1025 & 1026		
N	1025	N	1025 MISSING
	<u>Boophilus annulatus</u> ♂'s, ♀'s		
	Sheep		
	Hammam-Meskoutine, Algeria		
	25.IV.1910		
	P. Deschabert		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1026	N	1026
		RML	109931
	<u>Rhipicephalus bursa</u> 1 ♂		1 ♂ <u>Rhipicephalus bursa</u>
	Sheep		Sheep
	Hamram-Meskoutine, Algeria		Hamram Meskoutine (36.27 N, 07.16 E), Algeria
	25.IV.1910		25.IV.1910
	P. Deschabert		P. Deschabert
N	1027	N	1027
		RML	66680
	<u>Rhipicephalus coriaceus</u> 18 ♂'s		12 ♂, 5 ♀ <u>Rhipicephalus supertritus</u>
	Eland		<u>Taurotragus oryx</u>
	Mpelele River, Marimba District Nyasaland		Mpelele River (13.07 S, 33.47 E), Malawi
	20.II.1910		20.II.1910
	Dr. Pask		Dr. Pask

ORIGINAL DETERMINATIONCURRENT STATUS

N 1028, a, b

N 1028, a, b

RML 109932

(1028) Rhipicephalus simus ♂'s
 (a) Rhipicephalus lunulatus 5 ♂
 (b) Rhipicephalus falcatus 2 ♂

(1028) 6 ♂ Rhipicephalus simus
 (a) 5 ♂ Rhipicephalus lunulatus
 (b) 2 ♂ Rhipicephalus senegalensis

Warthog

Phacochoerus aethiopicusMpelele River, Marimba District,
Nyasaland

Mpelele River (13.07 S, 33.47 E), Malawi

20.II.1910

20.II.1910

Dr. R. Pask

Dr. R. Pask

(found together with Hyalomma
aegyptium, these returned)

Ticks received from Dr. H. Hearsey, Zomba Nyasaland, sent by him 10.VI.1909
 (Numbered 772-776 by mistake in old catalogue, since renumbered).

N 1029

N 1029

RML 109933

Dermacentor rhinocerotis 3 ♂'s2 ♂ Dermacentor rhinocerus

Grass and leaves

Grass and leaves

Deep Bay, Vua Road, North Nyasa

Vua Road, Chilumba (10.27 S, 34.16 E),
Malawi

13.V.1909

13.V.1909

J. B. Davey

J. B. Davey

ORIGINAL DETERMINATIONCURRENT STATUS

N	1030	N	1030 MISSING
	<u>Amblyomma hippopotamensis</u> or n. sp. 3 ♀'s		
	Grass and leaves Deep Bay, Vua Road, North Nyasa		
	13.V.1909		
	J. B. Davey		
N	1031	N	1031
		RML	109934
	<u>Amblyomma petersi</u> (? the long lost ♂)		2 ♂ <u>Amblyomma rhinocerotis</u>
	Grass and leaves		Grass and leaves
	Deep Bay, Vua Road, North Nyasa		Vua Road, Chilumba (10.27 S, 34.16 E), Malawi
	13.V.1909		13.V.1909
	J. B. Davey		J. B. Davey
			Cited: Robinson (1926: 264).
N	1032	N	1032
		RML	109935
	<u>Amblyomma petersi</u> 3 ♀'s		1 ♀ <u>Amblyomma rhinocerotis</u>
	Grass and leaves		Grass and leaves
	Deep Bay, Vua Road, North Nyasa		Vua Road, Chilumba (10.27 S, 34.16 E), Malawi
	13.V.1909		13.V.1909
	J. B. Davey		J. B. Davey
	1 ♀ to Prof. R. Matheson, Cornell 27.V.1929		Cited: Robinson (1926: 264).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1033	N	1033 MISSING
<u>Boophilus australis</u> ♀'s			
Sick calf which died 3 days later			
Zomba, Nyasaland			
13.V.1909			
Sent by Dr. H. Hearsey			
N	1034	N	1034 MISSING
<u>Ixodes ricinus</u> ♂'s, ♀'s			
No particulars			
Rec'd 16.X.1901			
Rec'd from E. G. Wheler			
N	1035	N	1035 MISSING
<u>Ixodes ricinus</u> 2 ♀'s			
Collie dog			
Sligo, Ireland			
10.V.1905			
Sent by A. E. F. Nuttall			
Det. by G.H.F.N.			
N	1036	N	1036 MISSING
<u>Ixodes ricinus</u> 1 ♀			
Young rat			
Longner Hall, Shrewsbury England			
20.IV.1906			
R. F. L. Burton			

ORIGINAL DETERMINATIONCURRENT STATUS

N	1037	N	1037	MISSING
	<u>Ixodes ricinus</u> 1 ♀			
	Cat			
	Hants			
	27.III.1906			
	E. C. Burleigh			
	Det. by G.H.F.N.			
N	1038	N	1038	MISSING
	<u>Ixodes ricinus</u> ♀'s			
	Cattle with redwater			
	Ireland			
	Rec'd 26.V.1905			
	Rec'd from Prof. Mettam (Dublin coll.)			
	Det. by G.H.F.N.			
N	1039a-c	N	1039a-c	MISSING
	(a) <u>Ixodes ricinus</u> ♂'s			
	(b) <u>Ixodes ricinus</u> ♀'s			
	(c) <u>Ixodes ricinus</u> ♀'s, N's			
	Sheep (?)			
	Bewsbaugh, Kilder Station, Northumberland			
	Rec'd 3.V.1905			
	Rec'd from J. Kedley			
	2 ♀ to Launcelot Harrison, Australia 9.V.1919.			
	2 ♀ to Prof. M. Jesus Maynar Zaragoza Spain 10.V.1919.			
	2 ♀ to Prof. Poulton, Oxford 26.V.1919.			
	2 ♀ to Prof. E. Hindle, Cambridge 24.IX.1919.			
	2 ♀ to Major Lothian, School of Hygiene, Blackpool 25.IX.1919			

ORIGINAL DETERMINATIONCURRENT STATUS

N 1040

N 1040 MISSING

Ixodes ricinus 2 ♂'s

British origin

Rec'd 25.XI.1905

Rec'd from S. Stockman

1 ♂ to Prof. E. Brumpt, École
Médecine, Paris 12.X.1922.1 ♂ to I. C. Ross, University
of Sydney, Australia.

N 1041

N 1041

RML 109936

Ixodes ricinus ♂'s, ♀'s80 L Ixodes ricinus

Cattle

Cattle

Tavistock, Co. Devon

Tavistock (50.33 N, 04.09 W),
Devon, England

12.IV.1910

12.IV.1910

G. H. Gibbings

G. H. Gibbings

1 ♂, 2 N, L's to Prof. Dr. Dahl
Berlin Museum VII.1914.

Cited: Nuttall & Warburton (1911; 154).

1 ♂, 2 N, L's to Dr. S. Schenkling,
Deutsches Entomol. Mus. VII.1914.1 ♂, 2 N, L's to R. Gestro, Museu
Civico di Storia Nat. Genova
VII.1914.1 ♂ to Dr. E. Rouband, Inst.
Pasteur, Paris, 12.X.1922.1 ♂ to Prof. J. Hjort, Univ.
Christiana, Norway 12.X.1922.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1042	N	1042	MISSING
	<u>Ixodes ricinus</u> ♀'s			
	Scotland			
	Rec'd. 24.IV.1905			
N	1043	N	1043	MISSING
	<u>Ixodes ricinus</u> N's unfed			
	Rec'd 1903			
	Rec'd from E. G. Wheeler			
N	1044	N	1044	MISSING
	<u>Ixodes canisuga</u> larvae			
	1906			
	E. G. Wheeler			
	ex A. E. Shipley's coll.			
	[2 larvae mounted on balsam on slide]			
N	1045	N	1045	
		RML	109937	
	<u>Ixodes canisuga</u> ♀'s		3 ♀ <u>Ixodes canisuga</u>	
	Rec'd 1903		Rec'd 1903	
	Rec'd from E. G. Wheeler		Rec'd from E. G. Wheeler	

ORIGINAL DETERMINATIONCURRENT STATUS

N	1046	N	1046
		RML	109938
	<u>Ixodes canisuga</u> ♀'s		4 ♀ <u>Ixodes canisuga</u>
	Pragg		Gowanburn, N. Tyne, England
	4.V.1901		4.V.1901
	ex E. G. Wheeler coll.		ex E. G. Wheeler coll.
			Locality information from Nuttall & Warburton (1911: 213).
N	1047	N	1047
		RML	109939
	<u>Ixodes canisuga</u> 1♀		1 ♀ <u>Ixodes canisuga</u>
	1906		1906
	ex Wheeler coll.		ex Wheeler coll.
N	1048	N	1048
		RML	109940
	<u>Haemaphysalis leachi</u> nymphs unfed		9 N <u>Haemaphysalis leachi</u>
	Cape Colony		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From C. P. Lounsbury		From C. P. Lounsbury
	1 N to Prof. Dr. Dahl, Berlin Museum VII.1914.		
	1 N to Prof. Dr. Schenkling Deutsches Entomol. Mus. VII.1914.		
	1 N to Prof. Dr. Gestro, Museu Civico di Storia Nat. Genova VII.1914.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1049	N	1049
		RML	109941
	<u>Haemaphysalis leachi</u> larvae unfed	21 L	<u>Haemaphysalis leachi</u>
	Cape Colony		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From C. P. Lounsbury		From C. P. Lounsbury
	L's to Prof. Dr. Dahl, Berlin Museum VII.1914. L's to Prof. Dr. Schenkling, Deutsches Entomol. Mus. VII.1914. L's to Prof. Dr. Gestro, Museo Civico de Storia Genova VII.1914.		
N	1050	N	1050 MISSING
	<u>Haemaphysalis leachi</u> ♂, ♀'s		
	Hedgehog		
	Cambridge		
	1906		
N	1051	N	1051
		RML	109942
	<u>Ixodes canisuga</u> 1 ♀ (gorged)	1 ♀	<u>Ixodes canisuga</u>
	Grass		Grass
	Downs, Lizard, England		Downs, Lizard (49.58 N, 05.13 W) England
	IX.1909		IX.1909
	Dr. L. Cobbett		Dr. L. Cobbett

ORIGINAL DETERMINATIONCURRENT STATUS

N 1052 a-c

N 1052 b, c

RML 109943

- (a) Hyalomma aegyptium ♂, ♀'s
 (b) Rhipicephalus bursa 1♀
 (c) Boophilus annulatus ♀'s

- (a) MISSING
 (b) 1 ♀ Rhipicephalus bursa
 (c) 33 ♀ Boophilus annulatus

Sheep

Sheep

Hamam-Meskoutine, Algeria

Hamam Meskoutine (36.27 N, 07.16 E),
Algeria

Rec'd 6.V.1910

Rec'd 6.V.1910

From M. Paul Deschabert

From M. Paul Deschabert

With Melophagus ovinus and
 1 hippoboscid fly

N 1053 a-d

N 1053 b, c

RML 109944

- (a) Hyalomma aegyptium ♂'s, ♀'s
 (b) Rhipicephalus bursa 2 ♂, 1 ♀
 (c) Boophilus annulatus ♀'s
 (d) Ixodes ricinus 2 ♀'s

- (a) MISSING
 (b) 2 ♂, 1 ♀ Rhipicephalus bursa
 (c) 8 ♀ Boophilus annulatus
 (d) MISSING

Sheep

Sheep

Hamam-Meskoutine, Algeria

Hamam Meskoutine (36.27 N, 07.16 E),
Algeria

Rec'd 8.V.1910

Rec'd 8.V.1910

Rec'd from M. Paul Deschabert

Rec'd from M. Paul Deschabert

ORIGINAL DETERMINATIONCURRENT STATUS

N 1054

N 1054 MISSING

Ixodes ricinus 1♂

Sheep

Glenginert, Ardentinn
Argyllshire, Scotland

Rec'd 5.V.1910

Rec'd from Capt. Leschallus
through G. Merriman

N 1055

N 1055

RML 109945

Rhipicephalus evertsi ♂'s, ♀'s
N's and N's skins102 ♂, 5 ♀ Rhipicephalus evertsi

Cow with East Coast Fever

Cow with East Coast Fever

Cape Colony

Cape Colony, Republic of South Africa

18.XI.1908

18.XI.1908

Rec'd from Mr. C. P. Lounsbury

Rec'd from Mr. C. P. Lounsbury

Died in laboratory unfed. Rest
used for infecting cows
I & II, see Parasitol. vols.
II & III.1 ♂, 1 ♀ to Dr. J. H. Ashworth
22.VI.1910.

Ticks sent by Dr. A. T. Stanton of the Medical Research Institute, Kuala Lumpur, Federated Malay States 31.III.1910.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1056a, b	N	1056 b
		RML	109946
	(a) <u>Amblyomma testudinarium</u> 1♀		(a) MISSING
	(b) <u>Dermacentor auratus</u> var. <u>compactus</u> 1 ♂		(b) 1 ♀ <u>Dermacentor</u> sp.
	Vegetation in jungle		Vegetation in jungle
	Negeri Sembilan, Fed. Malay States		State of Negri Sembilan (02.45 N, 102.10 E), Malaysia
	Sent 31.III.1910		Sent 31.III.1910
	Sent by Dr. A. T. Stanton		Sent by Dr. A. T. Stanton
	Sent back 1056a		
N	1057a, b	N	1057a, b
		RML	109947
	(a) <u>Haemaphysalis wellingtoni</u> ♂'s		(a) 2 ♂ <u>Haemaphysalis wellingtoni</u>
	(b) <u>Haemaphysalis wellingtoni</u> 2 N, many L		(b) 2 N, 20 L <u>Haemaphysalis wellingtoni</u>
	Domestic fowl		Domestic fowl
	Selangor, F.M.S.		Kuala Selangor (03.21 N, 101.15 E), Malaysia
	Sent 31.III.1910		Sent 31.III.1910
	Sent by Dr. A. T. Stanton		Sent by Dr. A. T. Stanton
	Sent back 2 ♂ & some larvae 1057a & b		Slide missing
	[3 larvae mounted in balsam on a slide]		Nuttall & Warburton (1915: 481), indicated 25 larvae in this collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1058

N 1058

RML 109948

Rhipicephalus sanguineus ♂'s,
♀'s, L's, eggs8 ♀, many L & eggs Rhipicephalus
sanguineus

Dog

Dog

Selangor, Fed. Malay States

Kuala Selangor (03.21 N, 101.15 E),
Malaysia

Sent 31.III.1910

Sent 31.III.1910

Sent by Dr. A. T. Stanton

Sent by Dr. A. T. Stanton

Sent back 1 ♂, 1 ♀, eggs
& larvae of 1058

N 1059

N 1059

RML 109949

Boophilus australis 3 ♀, L's,
eggs3 ♀, 27 L, many eggs Boophilus
microplus

Cattle

Cattle

Selangor, Fed. Malay States

Kuala Selangor (03.21 N, 101.15 E),
Malaysia

Sent 31.III.1910

Sent 31.III.1910

Sent by Dr. A. T. Stanton

Sent by Dr. A. T. Stanton

ORIGINAL DETERMINATIONCURRENT STATUS

N 1060 a-c

N 1060 a-c

RML 109950

- (a) Rhipicephalus haemaphysaloides ♂'s
 (b) Haemaphysalis hystrix ♂'s
 (c) Haemaphysalis koningsbergeri 1♂

- (a) 2 ♂, 1 ♀ Rhipicephalus haemaphysaloides
 (b) 1 ♂ Haemaphysalis bispinosa
 (b) 3 ♂ Haemaphysalis semermis
 (c) 1 ♂ Haemaphysalis koningsbergeri

Tiger

Panthera tigris

Pahang, Fed. Malay States

Kuala Pahang (03.32 N, 103.28 E),
Malaysia

Sent 31.III.1910

Sent 31.III.1910

Sent by Dr. A. T. Stanton

Sent by Dr. A. T. Stanton

Sent back 3 ♂ (1060a)
 Sent back 2 ♂, 1 ♀ (1060b)

(b) Cited: Hoogstraal (1965b: 435).
 (c) Cited: Nuttall & Warburton
 (1915: 475).

N 1061

N 1061

RML 109951

Boophilus australis ♀'s, ♂'s38 ♂, 36 ♀, 5 N Boophilus microplusAustralian calf suffering from
"piroplasmosis" (bacilliiform)Australian calf suffering from
"piroplasmosis" (bacilliiform)

Federated Malay States

Malaysia

Sent 31.III.1910

Sent 31.III.1910

Sent by Dr. A. T. Stanton

Sent by Dr. A. T. Stanton

v. Dr. Symonds letter
 Sent back 3 ♂, 3 ♀ (1061).
 Some (sex/stage not stated) to
 Dr. Longin Navas, Zaragoza,
 Spain 28.V.1913.
 1 ♂, 1 ♀ to Richard Hancock,
 England 16.VI.1918.
 1 ♂, 1 ♀ to Dr. Lajos Gozony
 University of Budapest, Hungary
 23.VI.1914.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1062

Dermacentor auratus var.
compactus 1 ♂

Wild pig

Pahang, F.M.S.

Sent 31.III.1910

Sent by Dr. A. T. Stanton

(with 3 lice, Haematopinus sp.)

N 1062

RML 109952

2 ♂, 1 ♀ Dermacentor sp.

Wild pig

Kuala Pahang (03.32 N, 103.28 E),
Malaysia

Sent 31.III.1910

Sent by Dr. A. T. Stanton

N 1063

Amblyomma sublaeve ♂'sScaly anteater (Manis javanica)

Negui Sembilan, Fed. Malay St.

Sent 31.III.1910

Sent by Dr. A. T. Stanton

Sent back 2 ♀'s (1063)

N 1063

RML 109953

8 ♂ Amblyomma javanenseManis javanicaState of Negri Sembilan (02.45 N,
102.10 E), Malaysia

Sent 31.III.1910

Sent by Dr. A. T. Stanton

Cited: Robinson (1926: 247).

ORIGINAL DETERMINATION	CURRENT STATUS
N 1064	N 1064
<u>Dermacentor venustus</u> 1 ♂	1 ♂ <u>Dermacentor andersoni</u>
Kasle, British Columbia	Kaslo, (49.55 N, 116.55 W), British Columbia, Canada
5.IV.1908	5.IV.1908
J. W. Cockle	J. W. Cockle
Sent 30.XI.1909 by C. Gordon Hewitt, Dominion Entomologist, Central Experimental Farm, Ottawa, Canada, with another ♂ & ♀ (returned with the following specimens): <u>Ixodes ricinus</u> ♀ (1) off man, Vancouver, B.C., 1907, Dr. G. W. Boggs. <u>Ixodes scapularis</u> 1 ♀ off man, 14.VIII.1906 ("caused great irritation and an ugly looking red spot for some weeks.") No. 62477. <u>Ixodes scapularis</u> 1 ♀ off ? Bracebridge, Ontario, 18.VI.1904 M. Mahafy. <u>Ixodes cookei</u> 1 ♀ off dog Calabogie, Ontario, 22.V.1908 Dr. R. M. Reid. <u>Ixodes angustus</u> 1 ♀ off mouse Jeffrey, N. B., 12.X.1908 C. H. McNutt. <u>Dermacentori variabilis</u> 1 ♀ off man, Winnipeg, 10.VI.1901 Rev. W. A. Burnan. <u>Dermacentor variabilis</u> 1 ♀ off man Winkler, 27.VII....Dr. L. B. Scott.	Charles Gordon Hewitt (1885-1920), Attended University of Manchester, did pioneer studies in the life history of houseflies in England the subject of his doctoral thesis before becoming Dominion Entomologist of Canada.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1065	N	1065
		RML	109955
	<u>Ixodes angustus</u> 1 ♂		1 ♂ <u>Ixodes angustus</u>
	<u>Sciurus hudsonicus douglasi</u>		<u>Tamiasciurus douglasi</u>
	Mt. Lehman, Brit. Columbia		Mt. Lehman, British Columbia, Canada (locality not verified).
	31.III.1910		31.III.1910
	S. Hadwen		S. Hadwen
			Cited: Nuttall & Warburton (1911: 197).
N	1066	N	1066
		RML	109956
	<u>Ixodes texanus</u> var. 5 ♀		5 ♀ <u>Ixodes</u> sp.
	Origin unknown		Origin unknown
	[R 245]		These ticks are not <u>Ixodes texanus</u> or <u>I. hearlei</u>
N	1067	N	1067
		RML	109957
	<u>Ixodes hexagonus</u> 1 ♀		1 ♀ <u>Ixodes hexagonus</u>
	Fox		<u>Vulpes vulpes</u>
	Boxworth, Hants		Boxworth (56.16 N, 00.02 W), England
	22.I.1898		22.I.1898
	[R 200] (very dark legs, etc., scutum corrugated in the lateral fields, G.H.F.N.)		Cited: Nuttall & Warburton (1911: 182).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1068

Ixodes canisuga 6 ♂, 6 ♀Nest of Cotile riparia

Lyndhurst

11.VII.1900

[R 190] G.H.F.N. det. V.1910
(♀'s unfed)

N 1068

RML 109958

4 ♂, 4 ♀ Ixodes lividusNest of Riparia ripariaLyndhurst (50.52 N, 01.34 W),
England

11.VII.1900

Cited: Nuttall & Warburton (1911:
214); Arthur (1963: 92) indicated
6 ♂, 6 ♀ were present; Thompson
(1967: 106).

N 1069

Ixodes tenuirostrisArvicola arvalis

Campfer

11.VII.1904

Dr. K. Jordan

♂ & ♀ in copula (aberrant,
hypostome not in vulva), 1 ♀
gorged, 3 N gorged [R 146]

N 1069

RML 109959

1 ♂, 2 ♀, 3 N Ixodes triangulicepsMicrotus arvalisCampfer (46.28 N, 09.48 E),
Switzerland

11.VII.1904

Dr. K. Jordan

Cited: Nuttall & Warburton
(1911: 248).Heinrich Ernst Karl Jordan
(1861-1959) came to England in
1893. A world authority on fleas
but also published extensively on
Lepidoptera and Coleoptera
especially Anthribidae.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1070a, b

N 1070a, b

RML 109960

- (a) Haemaphysalis hystrix 2 ♀
 (b) Boophilus australis 1 ♂, ♀'s

- 1 ♀ Haemaphysalis longicornis
 2 ♂, 1 ♀ Boophilus microplus

Some taken from Sambhur Cervus
 probably C. aristotelis others
 from bullocks

Some taken from Sambhur, Cervus
 probably C. unicolor others from
 bullocks

Kelantan, Federated Malay
 States

State of Kelantan (05.20 N, 102.00 E),
 Malaysia

Rec'd 21.V.1910

Rec'd 21.V.1910

Rec'd from J. H. Ashworth,
 Zool. Dept. Edinburgh

Rec'd from J. H. Ashworth, Zool.
 Dept. Edinburgh

(a) Cited: Nuttall & Warburton
 (1915: 425).

Ticks received 23.V.1910 from Dr. W. H. Marshall, Assistant M. O., Rangoon.

N 1071 a-c

N 1071 a, b

RML 109961

- (a) Boophilus australis ♀'s
 (b) Haemaphysalis bispinosa
 4 ♂, 1 ♀
 (c) Hyalomma aegyptium 1 ♀

- (a) 5 ♀, 1 N Boophilus microplus
 (b) 4 ♂, 1 ♀ Haemaphysalis bispinosa

(c) MISSING

Cow

Cow

Bangalore, India

Bangalore (12.59 N, 77.35 E), India

6.I.1910

6.I.1910

Rec'd from Dr. W. H. Marshall

Rec'd from Dr. W. H. Marshall

Cited: Nuttall & Warburton (1915: 432).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1072	N	1072
		RML	109962
	<u>Rhipicephalus sanguineus</u> ♂, ♀'s		1 ♂, 7 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Bangalore, India		Bangalore (12.59 N, 77.35 E), India
	Rec'd 23.V.1910		Rec'd 23.V.1910
	Rec'd from Dr. W. H. Marshall		Rec'd from Dr. W. H. Marshall
N	1073	N	1073
		RML	109963
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		8 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Bangalore, India		Bangalore (12.59 N, 77.35 E), India
	5.I.1910		5.I.1910
	Rec'd from Dr. W. H. Marshall		Rec'd from Dr. W. H. Marshall
N	1074	N	1074
		RML	109964
	<u>Aponomma laeve</u> var <u>paradoxa</u> 8 ♂		7 ♂ <u>Aponomma pattoni</u>
	Cobra		<u>Naja naja</u> or <u>Ophiophagus hannah</u>
	Bangalore, India		Bangalore (12.59 N, 77.35 E), India
	15.II.1910		15.II.1910
	Rec'd from Dr. W. H. Marshall		Rec'd from Dr. W. H. Marshall
			Note in vial, "No ♀♀ G.H.F.N. 2.III.33"

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1075	N	1075
		RML	109965
	<u>Haemaphysalis concinna</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Haemaphysalis concinna</u>
	France		France
	Presented V.1910		Presented V.1910
	Presented by Prof. L. G. Neumann (Toulouse)		Presented by Prof. L. G. Neumann (Toulouse)
	ex Neumann coll. (No. 993)		Cited & figured: Nuttall & Warburton (1915: 453).
N	1076	N	1076 MISSING
	<u>Ornithodoros moubata</u> 2		
	Rec'd 1905		
	Rec'd from Dr. G. C. Low Lond. Sch. Trop. Med.		
	No history except "native name "N kufu"		
N	1077	N	1077 MISSING
	<u>Ornithodoros moubata</u> eggs, nymphs, skin		
	Rec'd 1906		
	Rec'd from Dr. Breinl, Liverpool Sch. Trop. Med.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1078

N 1078

RML 109966

Dermacentor reticulatus 3 ♀'s3 ♀ Dermacentor niveus

Sheep

Sheep

Surnabad, Transcaucasia

Zurnabad (40.30 N, 46.15 E),
Azerbaijan SSR, USSR.

25.III.1904 and 22.V.1907

25.III.1904

ex Dschunkowsky coll.
(No's. 44 and 39)

ex. Dschunkowsky coll. (No's. 44 & 39)

Only one date on vial label.

Ticks received 23.V.1910 from L. E. Robinson ex W. F. Cooper collection to be determined and returned. Notes thereon: (with his numbers bracketed).

Ixodes

Ixodes ricinus 2 ♀'s off Ferret, Canterbury, Kent (363)

" " ♀'s off sheep, Hawick, N.B. North Britain [Scotland]
22.VI.1906 C. Grieve coll. (246)

" " ♂, ♀'s off ? Roscommon, Ireland VIII.1906 coll. ? (244)

" " ♀ ox Maison Carree, Algeria 10.II.1908 coll. ? (364)

" " L ex E. G. Wheler coll., 1905 Alnwick, Northumberland,
England (248)

Ixodes hexagonus 1 ♀ off wild boar, Algeria, S. Williamson (365)

" " ♀'s off ferret, Canterbury IV.1908, Spanton Coll. (245)

Ixodes canisuga ♀'s off dogs, Stanhope, Durham, England 25.IX.1905
D. Robertson (Keeper) coll. (242)

" " 3 ♂, 2 ♀, Alnwick Northumberland, E. G. Wheler coll.
1905, no number but one by W.F.C. in 1909 and now
returned except for 1 ♂

Ixodes pilosus 2 ♀ off duiker bok, Gonubie Park, S. Africa, 11.XII.190?
(183)

Ixodes holocyclus 4 ♀ off ?, Lismore, Tweedline, Queensland, Australia
14.X.1907, S. R. Scott coll. (252)

" " 1 ♂, 1 ♂ & ♀, 5 ♀'s off ?, Dept. Agric., Brisbane
Queensland, Australia VI.1906, H. Tryon coll. (253)

Ixodes loricatus 1 ♂ off ?, Estancia Cooper, Paraguay VI.1906, Foster
coll. (249)

Ixodes rubicundus 2 ♂, 3 ♀ & ♀, 18 ♀ off goats, Albert District, S. Africa
1905, H.E.F. coll. ? (250)

ORIGINAL DETERMINATIONCURRENT STATUS

N	1079	N	1079
		RML	109967
	<u>Ixodes canisuga</u> 2 ♂		1 ♂ <u>Ixodes canisuga</u>
	Alnwick, Northumberland		Alnwick (55.24 N, 01.42 W), England
	ex E. G. Wheeler coll, 1905		ex E. G. Wheeler coll, 1905
	ex W. F. Cooper coll, 1910		ex W. F. Cooper coll, 1910
	(one mounted on two slides, figured by G.H.F.N.)		Slides missing
N	1080	N	1080
		RML	22287
	<u>Ixodes holocyclus</u> 1 ♀ heavily gorged		1 ♀ <u>Ixodes holocyclus</u>
	Lismore, Tweedline, Queensland, Australia		Lismore (28.48 S, 153.17 E), Tweedline, Queensland, Australia
	14.X.1907		14.X.1907
	S. R. Scott		S. R. Scott
	(ex Cooper coll 252 v. <u>supra</u>)		Cited: Nuttall & Warburton (1911: 238) but without Nuttall number.
N	1081	N	1081
		RML	109968
	<u>Ixodes holocyclus</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Ixodes holocyclus</u>
	Dept. Agric., Brisbane, Queensland, Australia		Department of Agriculture, Brisbane (27.28 S, 153.02 E), Queensland, Australia
	VI.1906		VI.1906
	H. Tryon		H. Tryon
	(ex Cooper coll 253 v. <u>supra</u>)		Cited: Nuttall & Warburton (1911: 238) but without Nuttall number.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1082	N	1082
		RML	109969
	<u>Ixodes rubicundus</u>		2 ♂, 4 ♀ <u>Ixodes rubicundus</u>
	Goats		Goats
	Albert District, S. Africa		Albert District (30.55 S, 26.20 E), Republic of South Africa
	1905		1905
	H.E.F.		H.E.F.
	(ex Cooper coll (250 v <u>supra</u>)		Cited: Nuttall & Warburton (1911: 207) but without Nuttall number.
N	1083	N	1083 MISSING
	<u>Argas persicus</u> mostly N's		
	Cape Colony		
	1909		
	Died in laboratory		

Ticks received from the Indian Museum 1910, sent to E. A. Shipley and determined by C. Warburton IV-V.1910.

<u>Ambly. testudinarium</u>	1 ♂, Sikkim	5950
	♂s ♀s, Sibsagar, Assam	<u>10</u>
		8601-8602
		<u>9</u>
<u>Aponomma gervaisi</u>	adults, off <u>Varanus lunatus</u> (= <u>V. bengalensis</u>), Agra, U. Pr.	5953
		<u>10</u>
" "	adults, off <u>Varanus bengalensis</u> , Karachi, Sind, ex No. 4667	5982
		<u>10</u>
" "	adults, off <u>Varanus nebulosus</u> , Agra, U. Pr. ex. No. 2113	5984
		<u>10</u>
" "	adults, off <u>Varanus bengalensis</u> , Agra, U. Pr. ex. No. 2110	5984
		<u>10</u>
" "	1 ♂ (see <u>Ap. decorosum</u>), nymphs off <u>Naia tripundians</u> , Zool. Gardens, Calcutta	5967
		<u>10</u>
<u>Aponomma decorosum</u>	adults off <u>Varanus salvator</u> , Brisbane, Queensland Australia as Nos. 11914 and 11916 with 1 ♂ <u>Apon. gervaisi</u>	5988
		<u>10</u>
<u>Argas persicus</u>	found in a book, Ind. Mus. Library, Calcutta	5946
		<u>10</u>
<u>Argas vespertilionis</u>	nymph, Belgaum, Bombay	416
		<u>1</u>
<u>Dermacentor rhinocerotis</u>	2 ♂ off Rhinoceros, Ketloa, Anseba Valley, Abyssinia	5949
		<u>10</u>
<u>Haemaphysalis bispinosa</u>	1 ♂ off dog, Berhampur, 5.I.1910	6001
		<u>10</u>
" "	2 ♀ off <u>Felis tigris</u> , Burdwar, Nepal, Terai, (found with <u>H. leachi</u>)	6003-6001
		<u>10</u> <u>8</u>
" "	adults, off dog, Bhogaon, Purneah District, N. Bengal	6000
		<u>10</u>
" "	♀ off <u>Macacus sinicus</u> , Maddathory, W. base of W. Ghats, Travancore	5947
		<u>10</u>
<u>Haemaphysalis flava</u>	1 ♂ off sheep, Hillside below Phagu, (7000 feet) Simba hills, W. Himalayas	5998
		<u>10</u>
" <u>hystricis</u>	5 ♀ off <u>Geomyda spinosa</u> ? Burma, India (with <u>Ambly. n.sp.</u>)	19
		<u>1</u>
" "	1 ♀ off ? Sibsagar, Assam	5940
		<u>10</u>

<u>Haemaphysalis leachi</u> var <u>australis</u> Nn (see No. 1110 our coll.)		
1 ♀ off <u>Felis tigris</u> , Burdwar Nepal		6063
Terai found with <u>H. bispinosa</u>		10
" <u>wellingtoni</u> ♀ off ? Andamans		5951
		10
<u>Hyalomma aegyptium</u> 1 ♀ off <u>Cervus affinis</u> , Kota Nepal		5932
		10
3 ♂ off <u>Erinaceus megalotis</u> , Afghanistan		5970
		10
2 ♂ off <u>Euprepes</u> sp (= <u>Mabuia</u>), Karachi, Sind, W. India (found with <u>Ambly. sublaeve</u>)		5948
		10
1 N off <u>Erinaceus jerdoni</u> , Rajanpur N.W. Punjab (found with <u>Rh. sanguineus</u>)		5977
		10
N's off <u>Erinaceus pictus</u> , Karachi Sind, W. India		5968
		10
1 N off <u>Erinaceus grayi</u> (= <u>E. collaris</u>), Rohri, Sind		5975
		10
<u>Hyalomma syriacum</u> 3 ♀s off land tortoise, Quetta, Baluchistan		5946
		10
<u>Rhipicephalus sanguineus</u> ♂, Ns, off <u>Erinaceus grayi</u> (= <u>E. collaris</u>) Kotri, Sind		5971
		10
1 ♂ off <u>Erinaceus micropus</u> , Coimbatore S. India (ex No. 212c)		5969
		10
♂s off <u>Erinaceus pictus</u> , Alwar, Karachi, Sind or Gunah Central India		5973
		10
Adults & N's off <u>Erinaceus grayi</u> (= <u>E. collaris</u>), Karachi, Sind		5976
		10
♂s ♀s Ns off <u>Erinaceus pictus</u> , Karachi, Sind		5972
		10
♂ ♀ off <u>Canis aureus</u> (albino) Zool. Gardens, Calcutta		5965
		10
1 ♀ off ?, Katmandu Nepal		8603
		9
2 ♂ off <u>Erinaceus jerdoni</u> , Rajanpur, N.W. Punjab		5977
		10
1 ♀ off dog, Berhampur, Murshidabad District, Bengal (fd. with <u>H. bispinosa</u>)		6001
		10

<u>Rhipicephalus sanguineus</u>	1 ♂ off dog, Bhogaon, Purnea District N. Bengal (fd. with <u>H. bispinosa</u>)	<u>6000</u> 10
<u>Rhipicephalus haemaphysaloides</u>	1 ♀ off <u>Felis marmorata</u> , Zool. Gardens, Calcutta 2.XII.1909	<u>5964</u> 10

ORIGINAL DETERMINATIONCURRENT STATUS

N 1084

N 1084

RML 109970

Amblyomma testudinarium 6 ♀1 ♂, 1 ♀ Amblyomma testudinariumFelis tigrisPanthera tigris

Sibsagar, Assam

Sibsagar (26.59 N, 94.38 E), India

S. E. Peal

S. E. Peal

2 ♀ kept by us

1 ♀ to Prof. R. Matheson,
Cornell, 27.V.1929

1 ♂ to C. Strickland, Malaya

Indian Museum No. 5941
10Amblyomma decoratum 1 ♀ (hitherto unknown) off Geomyda grandis,
Zool Gardens Calcutta 346
1Argas reflexus indicus 1 found in a book at Entomological Room, Indian
Museum, Calcutta 15.111.1910 6267
10" " " 1 found on wall of Museum Building, Calcutta
16.111.1910 6269
10" " " I found in box sent from Indian Museum Calcutta to
Kurseong, E. Himalayas (4700 ft) 25.111.1910
6326 (birds building in roof of Museum. Passer
10 domesticus & Cypelus affinis)Haemaphysalis bispinosa 1 ♀ off grass, Lake Chilka, N.E. Madras, III.1910,
Annandale coll. 6227
10" " adults off Felis tigris, Motilal, Garthual District,
United Provinces of Rega and Udah, 5.111.1910,
R. Hadgart coll. 6268
10

ORIGINAL DETERMINATIONCURRENT STATUS

N 1085

N 1085

RML 109971

Haemaphysalis leachi

♂'s, ♀'s, N's, L's

1 ♂, 6 N, 3 L Haemaphysalis sp.Canis aureusCanis aureus

Museum Compound, Calcutta

Museum Compound, Calcutta
(26.32 N, 88.22 E), India

10 ♂, 5 ♀, 3 L kept by us

1 ♂, 1 ♀ to Dr. de Blieck, Java,
22.I.1915The ♂ is in a jar marked "Tick
Abnormalities." The ♂ is figured
in Nuttall (1914a: 252, fig. 3).Indian Museum No. $\frac{5994}{10}$ $\frac{5995}{10}$ Cited: Nuttall & Warburton
(1915: 475).

<u>Hyalomma aegyptium</u>	3 ♀ off ? Sestan, Persia	5934 10
<u>Rhipicephalus haemaphysaloides</u>	1 ♂ off ? Basanti Forest Station, 24 Pergumas Sunderbunds 16.XI.1909 T. Jenkins	5952 10
<u>Aponomma gervaisi</u> var. <u>lucasi</u>	♂, ♀s off <u>Varanus salvator</u> , Cantor, Assam, ex. 469	5986 10
	♂ ♀s off <u>Varanus salvator</u> , Rungpur E Bengal, ex. 2126	5985 10
	♂ ♀s off <u>Varanus salvator</u> , Narcondam, Bay of Bengal	5990 10
	1 ♀ off <u>Var. nebulosus</u> , Moulmein L. Burma, ex. 2114	5983 10
	♂ ♀s off <u>Bos. frontalis</u> (can't be GHFN) Z. Gardens, Calcutta 2.XII.1909	5963 10
	♂ ♀s off <u>Ovis nahura</u> (can't be GHFN) Z. Gardens, Calcutta 2.XII.1909	5963 10
	♂ ♀s off <u>Var. salvator</u> , locality ?	5989 10
	♂s ♀s off <u>Naia bungarus</u> , Zool. Gardens, Calcutta, 2.XII.1909	5966 10
	♂ ♀s off <u>Naia tripudians</u> , Zool. Gardens, Alipore, Calcutta 5.II.1910	6223 10
	♂ ♀s off <u>Naia bungarus</u> , Zool. Gardens, Alipore, Calcutta 5.II.1910	6222 10
	♂s ♀s off <u>Vipera russelli</u> , Zool. Gardens, Alipore, Calcutta	6220 10
	♂ ♀s off <u>Python</u> sp. Zool. Gardens Alipore, Calcutta 5.II.1910	6221 10
	♂ ♀s off <u>Varanus bengalensis</u> , Kachha, Naini Tal District, United Prov. of Agra & Oudh	6224 8

ORIGINAL DETERMINATIONCURRENT STATUS

N 1086a, b

N 1086a, b

RML 109972

(a) Haemaphysalis bispinosa ♂'s
 (b) Haemaphysalis bispinosa ♀'s

(a) 1 ♂ Haemaphysalis bispinosa
 (b) 6 ♀ Haemaphysalis bispinosa

Chosen as typical from various
 E. Indian lots in our collection
 by C. Warburton, 27.V.1910.

2 ♀, 2 N to C. Strickland
 Malaya

Ticks received back from the Entomol. Committee C.O. 1.VI.1910. All
 collected by Dr. J. B. Davey, N. Nyasaland (See Report 8, p. 107-108
 Ent.Cttee.)

N 1087

N 1087

RML 109973

Dermacentor rhinocerotis 2 ♂2 ♂ Dermacentor rhinocerus

Rhinoceros

Diceros sp.

Near Deer Bay (sic.) N.N.

Vua Road, Chilumba (10.27 S, 34.16 E),
Malawi

2.XI.1909

2.XI.1909

Dr. J. B. Davey

Dr. J. B. Davey

N 1088

N 1088

RML 109974

Amblyomma marmoreum 4 ♂, 1 ♀2 ♂, 1 ♀ Amblyomma sparsum

Rhinoceros

Diceros sp.

Near Deer Bay (sic.) N.N.

Near Chilumba (10.27 S, 34.16 E), Malawi

2.XI.1909

2.XI.1909

Dr. J. B. Davey

Dr. J. B. Davey

1 ♂ to Dr. E. Pavlovsky,
 Leningrad 9.X.1925

Cited: Theiler & Salisbury (1959: 113).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1089	N	1089
		RML	109975
	<u>Amblyomma petersi</u> 4 ♂, 1 ♀		4 ♂, 1 ♀ <u>Amblyomma rhinocerotis</u>
	Rhinoceros		<u>Diceros</u> sp.
	Near Deer Bay (sic.) N.N.		Near Chilumba (10.27 S, 34.16 E), Malawi
	2.XI.1909		2.XI.1909
	Dr. J. B. Davey		Dr. J. B. Davey
			Cited: Robinson (1926: 264).
N	1090	N	1090
		RML	109976
	<u>Boophilus australis</u> 5 ♂, 5 ♀		4 ♂, 5 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Mwenetete Village, N. Rukuru River, N.N.		Mwenetete Village, North Rukuru River (09.53 S, 33.56 E), Malawi
	16.VI.1909		16.VI.1909
	Dr. J. B. Davey		Dr. J. B. Davey
	(varietal forms, spines & no spines)		
N	1091	N	1091
		RML	109977
	<u>Rhipicephalus supertritus</u> 1 ♂		1 ♂ <u>Rhipicephalus supertritus</u>
	Bull eland		<u>Taurotragus oryx</u>
	Lufira River, N.N.		Lufilya River (09.50 S, 33.35 E), Malawi
	22.VI.1909		22.VI.1909
	Dr. J. B. Davey		Dr. J. B. Davey

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1092	N	1092
		RML	109978
	<u>Rhipicephalus capensis</u> 4 ♂		3 ♀ <u>Rhipicephalus compositus</u>
	Buffalo		<u>Syncerus caffer</u>
	Henga Valley, N.N.		Henga Valley, Malawi (locality not verified)
	3.XII.1909		3.XII.1909
	Dr. J. B. Davey		Dr. J. B. Davey
N	1093	N	1093
		RML	109979
	<u>Haemaphysalis hoodi</u> 1 ♂ 2 ♀		1 ♂, 2 ♀ <u>Haemaphysalis hoodi</u>
	Partridges ears		Partridges ears
	Nyungwi Stream, N.N.		Nyungwi Stream (13.42 S, 34.35 E), Malawi
	26.XI.1909		26.XI.1909
	Dr. J. B. Davey		Dr. J. B. Davey
			Cited: Nuttall & Warburton (1915: 486).
N	1094	N	1094
		RML	109980
	<u>Rhipicephalus supertritus</u> 1 ♂ (typical) 3 ♂ (typic.?)		3 ♂, 1 ♀ <u>Rhipicephalus supertritus</u>
	Eland		<u>Taurotragus oryx</u>
	Near Fort Hill, Nyami V., N.N.		Near Chitipa (09.43 S, 33.16 E), Malawi
	16.XI.1909		16.XI.1909
	Dr. J. B. Davey		Dr. J. B. Davey

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1095	N	1095
		RML	109981
	<u>Amblyomma marmoreum</u> 1 ♂		1 ♂ <u>Amblyomma sparsum</u>
	Monitor		<u>Varanus</u> sp.
	Wovwi R., N.N.		Wovwe River (10.17 S, 34.10 E), Malawi
	5.XI.1909		5.XI.1909
	Dr. J. B. Davey		Dr. J. B. Davey
			Cited: Theiler & Salisbury (1959: 113).
N	1096	N	1096
		RML	109982
	<u>Aponomma exornatum</u> 3 ♂, 3 ♀, 3 N		3 ♂, 1 ♀, 2 N <u>Aponomma exornatum</u>
	Monitor		<u>Varanus</u> sp.
	Wovwi R., N. N.		Wovwe River (10.17 S, 34.10 E), Malawi
	5.XI.1909		5.XI.1909
	Dr. J. B. Davey		Dr. J. B. Davey
N	1097	N	1097
		RML	109983
	<u>Dermacentor rhinocerotis</u> 3 ♂, 2 ♀		2 ♂, 1 ♀ <u>Dermacentor rhinocerus</u>
	Off grass & leaves		Off grass & leaves
	Deep Bay, Vua Road, N.N.		Vua Road, Chilumba (10.27 S, 34.16 E), Malawi
	14.....1909		14.....1909
	Dr. J. B. Davey		Dr. J. B. Davey
	1 ♂ to Dr. J. H. Ashworth, Edinburgh, 22.VI.1910		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1098

Amblyomma petersi 3 ♂, 4 ♀

Off grass & leaves

Deep Bay, Vua Road, N.N.

14....1909

Dr. J. B. Davey

N 1098

RML 109984

2 ♂, 3 ♀ Amblyomma rhinocerotis

Off grass & leaves

Vua Road, Chilumba (10.27 S, 34.16 E),
Malawi

14....1909

Dr. J. B. Davey

Cited: Robinson (1926: 264) who
indicated the collection month as May.

N 1099a, b

(a) Rhipicephalus falcatus ♂'s,
♀'s(b) Rhipicephalus simus ♂'s, ♀'s

Warthog

Chitipa V., Dowa District, Lake
Shore, N. Nyasaland

25.I.1910

Dr. J. B. Davey

Reexamined 28.IV.1919 by C. W. who
states that 1099a are R. falcatus
verging towards R. supertritus on
the one hand & towards R. simus
on the other. 1099b are R. simus
verging towards R. falcatus & R.
lunulatus in a similar manner.

N 1099, a, b

RML 109985

(1099) 10 ♂ Rhipicephalus sp. (Pinned)(a) 14 ♂ Rhipicephalus simus(a) 60 ♂, 44 ♀ Rhipicephalus
senegalensis(b) 51 ♂, 21 ♀ Rhipicephalus simus(b) 4 ♂ Rhipicephalus longusPhacochaerus aethiopicusChitipa Valley, Dowa District
(13.35 S, 34.00 E), Lake Shore,
Malawi

25.I.1910

Dr. J. B. Davey

Cited: Hoogstraal (1956a: 756).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1100	N	1100
		RML	109986
	<u>Rhipicephalus supertritus</u> ♂'s		9 ♂ <u>Rhipicephalus supertritus</u>
	Eland		<u>Taurotragus oryx</u>
	Mpelele River, Marimba District, Nyasaland		Mpelele River (13.07 S, 33.47 E), Malawi
	20.11.1910		20.11.1910
	Dr. Pask		Dr. Pask
	Ticks from the Indian Museum (1101-1104, 1106).		
N	1101	N	1101
		RML	109987
	<u>Amblyomma sublaeve</u> 19 ♂, 1 N		4 ♂, 1 N <u>Amblyomma javanense</u>
	<u>Euprepes</u> (=Mabuia)		Without knowing the species name of the skink, it is not possible to be sure of the present generic placement for Karachi specimens.
	Karachi, Sind		Karachi (24.52 N, 67.03 E), Pakistan
	J. A. W. Murray		J. A. W. Murray
	(taken 5 ♂, 1 N)		Cited: Robinson (1926:247).
	Indian Museum No. <u>5948</u> and 12013		

10

[There is an additional host and tick collection listed for N1101 but missing and the ticks probably returned to the Indian Museum - J.E.K.]

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1102	N	1102
		RML	109988
	<u>Amblyomma sublaeve</u> 7 ♂, 1 ♀		2 ♂, 1 ♀ <u>Amblyomma javanense</u>
	<u>Manis pentadactyla</u>		<u>Manis pentadactyla</u>
	Purchased 1871 Reg. No. 3223		Purchased 1871 Reg. No. 3223
	(Taken 2 ♂, 1 ♀)		Cited: Robinson (1926: 247).
	Indian Museum No. 3223		
N	1103	N	1103
		RML	109989
	<u>Rhipicephalus breviceps</u> 1 ♀		1 ♀ <u>Rhipicephalus sanguineus</u>
	TYPE		(Holotype of <u>R. breviceps</u>)
	<u>Erinaceus collaris</u>		<u>Hemiechinus auritus collaris</u>
	Sind		Sind (25.30 N, 69.00 E), Pakistan
	Indian Museum No. $\frac{5954}{10}$		Warburton (1910: 398), original description. The vulva of this ♀ has been removed and is now mounted on a slide.
N	1104	N	1104
		RML	109990
	<u>Ixodes gigas</u> 1 ♂ TYPE		1 ♂ <u>Ixodes acutitarsus</u>
			Lectotype of <u>I. gigas</u>
	Punkabari, Darjiling District, E. Himalayas		Punkabari, Darjeeling District (27.02 N, 88.16 E), India
			Warburton (1910: 397), original description. In that publication and in Nuttall & Warburton (1911: 204) the locality is spelled Punkabani. Lectotype designated: Keirans & Brewster (1981: 166).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1105	N	1105
		RML	109991
	<u>Dermacentor albipictus</u> 3 ♂, 3 ♀, 6 N		2 ♂, 3 ♀, 6 N <u>Dermacentor albipictus</u>
	Blucher Hall, British Columbia		Blucher Hall (51.06 N, 120.01 W), British Columbia, Canada
	III.1910		III.1910
	From Hon. N. C. Rothschild (London)		From Hon. N. C. Rothschild (London)
	Rec'd 2.IV.1910		
	1 ♂ to Dr. E. Pavlovsky, Leningrad 9.X.1925		
N	1106	N	1106
		RML	109992
	<u>Amblyomma supinoi</u> 1 ♀		2 ♀ <u>Amblyomma supinoi</u>
	<u>Geomyda spinosa</u>		<u>Heosemys spinosa</u>
	India (Burma ?)		India (Burma ?)
	Indian Museum No $\frac{19}{1}$		Warburton (1910: 403), original description of <u>A. annandalei</u> .
	This specimen had previously been determined as <u>Amblyomma</u> <u>geomydae</u> and <u>Amblyomma annandalei</u> TYPE		I do not know how the 2nd female came to be in this collection. The mutilated ♀ that conforms to fig. 8 of Warburton (1910: 403) is the holotype of <u>Amblyomma</u> <u>annandalei</u> [J.E.K.]

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1107	N	1107
		RML	109993
<u>Haemaphysalis longipalpis</u> 10 ♂, 1 ♀ TYPES (= <u>H. aculeata</u> Lavarra 1904)		8 ♂, 1 ♀ <u>Haemaphysalis aculeata</u> Lectotype and paralectotypes of <u>H. longipalpis</u>	
<u>Tragulus meminna</u> (Mouse Deer)		<u>Tragulus meminna</u> (Mouse Deer)	
Colombo, Ceylon		Colombo (06.56 N, 79.51 E), Sri Lanka	
3.VIII.1909		3.VIII, 1909	
C. C. Dobell		C. C. Dobell	
		Warburton (1910: 399), original description of <u>H. longipalpis</u> .	
		Cited: Nuttall & Warburton (1915: 442). Lectotype designated: Keirans & Brewster (1981: 163).	
		The ♀ vulva is mounted on a slide.	
N	1108	N	1108
		RML	88858
<u>Haemaphysalis cuspidata</u> 30 ♂		24 ♂ <u>Haemaphysalis cuspidata</u>	
<u>Tragulus meminna</u>		<u>Tragulus meminna</u>	
Colombo, Ceylon		Colombo (06.56 N, 79.51 E), Sri Lanka	
3.VIII.1909		3.VIII.1909	
C. C. Dobell		C. C. Dobell	
		Warburton (1910: 401), original description. Trapido (1965: 158) selection of a lectotype. Cited: Nuttall & Warburton (1915: 440).	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1109	N	1109
		RML	109994
	<u>Aponomma laeve</u> 4 ♂, N, larvae		4 ♂, 2 N, 20 L <u>Aponomma pattoni</u>
	<u>Zamenis mucosus</u>		<u>Ptyas mucosus</u>
	Peradeniya, Ceylon		Peradeniya (07.15 N, 80.36 E), Sri Lanka
	25.VIII.1909		25.VIII.1909
	R.B.G. (brought by C. C. Dobell)		R.B.G. (brought by C. C. Dobell)
			Host genus on vial label misspelled <u>Zamensis</u>
N	1110	N	1110 MISSING
	<u>Haemaphysalis leachi</u> var. <u>australis</u> 1 ♀		
	<u>Felis tigris</u>		
	Burdwar, Nepal Terai		
	Found with <u>Haem. bispinosa</u> Indian Museum no. <u>6003</u> 10		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1111a-d

N 1111d

RML 109995

- (a) Rhipicephalus evertsi ♀'s
- (b) Ixodes pilosus ♂'s, ♀'s
- (c) Boophilus decoloratus
- (d) Hyalomma aegyptium ♀'s

- (a) MISSING
- (b) MISSING
- (c) MISSING
- (d) 3 ♀ Hyalomma rufipes

Cape Colony

Cape Colony, Republic of South Africa

Rec'd 7.VI.1910

Rec'd 7.VI.1910

Rec'd from A. W. Noel Pillers
(Veterinary Dept. Great Central
Railway, Sheffield, England)

Rec'd from A. W. Noel Pillers
(Veterinary Dept. Great Central
Railway, Sheffield, England)

- (b) 1 ♀ to J. de Mega, Zomba,
Nyasaland 19.II.1916
- (c) Returned to Mr. Pillers

N 1112

N 1112 MISSING

Ornithodoros turicata

Aquascalientes, Mexico

Sent 9.VI.1910

Sent by Dr. Reinhold Findeisen

(Many alive being raised; raised
the larvae but they were lost by
Gordon Merriman but for 1 mounted
on slide in balsam).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1113

N 1113 MISSING

Ornithodoros megnini

Aguascalientes, Mexico

Sent 9.VI.1910

Sent by Dr. Reinhold Findeisen

Ticks received 27.VI.1910 from Hugh S. Stannus, M. B. London, Medical Officer, Zomba, Nyasaland, having been forwarded by Dr. Hearsey.

N 1114

N 1114 MISSING

Amblyomma variegatum 2 ♂, 1 ♀

Cattle

N. Angoniland

VI.1909

Dr. H. S. Stannus

Forms with B. decoloratus,
Rhip. appendiculatus, Hyal.
aegyptium, on cattle with
"T. parva" in blood

Mostly returned

N 1115

N 1115 MISSING

Amblyomma variegatum 3 ♂

Antelope (probably all eland)

Sakwa

X.1909

Dr. H. S. Stannus

Found with Rhip. capensis & Hyal.
aegyptium

All retained

ORIGINAL DETERMINATIONCURRENT STATUS

N 1116

N 1116

RML 109996

Boophilus australis 5 ♀5 ♀ Boophilus microplus

Cow

Cow

Zomba

Zomba (15.23 S, 35.20 E), Malawi

IV.1910

IV.1910

Dr. H. S. Stannus

Dr. H. S. Stannus

Found with Ambly. variegatum

Mostly returned

N 1117

N 1117

RML 109997

Boophilus decoloratus 5 ♀5 ♀ Boophilus microplus

Cattle

Cattle

Namadidi Estate, Zomba

Namadidi Estate (15.24 S, 35.15 E),
Zomba, Malawi

Rec'd 27.VI.1910

Rec'd 27.VI.1910

Dr. H. S. Stannus

Dr. H. S. Stannus

Animals infected with I.
dimorphon. Found with Ambly.
variegatum.

Mostly returned

ORIGINAL DETERMINATIONCURRENT STATUS

N 1118

N 1118 MISSING

Rhipicephalus appendiculatus

2 ♂, 2 ♀, 1 N

Cattle

N. Angoniland, Nyasaland

VI.1909

Found with 1114 and other sp.
listed above.

Mostly returned

N 1119

N 1119

RML 109998

Rhipicephalus simus many12 ♂, 8 ♀ Rhipicephalus simus1 ♂ Rhipicephalus jeanneli1 ♀ Haemaphysalis leachi

Lion

Panthera leo

Near Zomba

Near Zomba (15.23 S, 35.20 E),
Malawi

II.1910

II.1910

Dr. H. S. Stannus

Dr. H. S. Stannus

Found with 1 ♂ Haemaphysalis leachi

All retained

ORIGINAL DETERMINATIONCURRENT STATUS

N 1120

N 1120

RML 109999

Rhipicephalus simus 2 ♂, 2 ♀2 ♂, 1 ♀ Rhipicephalus simus

Dog

Dog

Zomba

Zomba (15.23 S, 35.20 E), Malawi

III.1910

III.1910

Dr. H. S. Stannus

Dr. H. S. Stannus

Mostly returned

N 1121

N 1121

RML 105561

Rhipicephalus capensis 17 ♂6 ♂, 1 ♀ Rhipicephalus compositus5 ♂, 1 ♀ Rhipicephalus punctatus1 ♂ Rhipicephalus simusOff antelope (probably all off
eland)Antelope probably Taurotragus oryx

Sakwa Mt. N. Angoniland

Sakwa Mt. N. Angoniland, Malawi
(locality not verified)

X.1909

X.1909

Dr. H. S. Stannus

Dr. H. S. Stannus

A few returned

1 ♂, 1 ♀ to R. W. Mettam,
Weybridge IV.1931; 1 ♂, 1 ♀ to
H. S. Purchase IV.1931

The following specimens were returned to the collector

<u>Amblyomma variegatum</u>	off <u>cow</u> , Zomba, IV.1910 (with 1116) - off <u>cows</u> London, N. Angoniland XI.1909 - off <u>cattle</u> Camp Boma, Zomba I.1910 - off <u>cattle</u> , Namadidi Estate, Zomba (with No. 1117).
<u>Boophilus decoloratus</u>	off <u>cattle</u> , N. Angoniland, VI.1909 with 1118 q.v. - off <u>cattle</u> , London, N. Angoniland XI.1909 with <u>Amblyomma variegatum</u> - off <u>cattle</u> , Camp Boma, Zomba, I.1910 with <u>Amblyomma variegatum</u> - off <u>sheep</u> , Mzimba, VI.1910
<u>Hyalomma aegyptium</u>	off <u>cattle</u> , N. Angoniland, VI.1909, with 1118 q.v. - off <u>antelope</u> , Sakwa Mt. N. Angoniland, X.1909 with No. 1121 q.v.
<u>Haemaphysalis leachi</u>	1 ♂ off <u>lion</u> with No. 1119 q.v.
<u>Ornithodoros moubata</u>	1, in rest house, Hora, N. Angoniland, VI.1909
<u>Rhipicephalus sanguineus</u>	off <u>dog</u> , Zomba, II.1910

ORIGINAL DETERMINATION

CURRENT STATUS

N	1122	N	1122 MISSING
---	------	---	--------------

Hyalomma aegyptium ♂'s, ♀'s

Camels

Biskra, Algeria

4-6.VI.1910

Schoolboys

Sent in 13 tubes by the Schoolmaster
S. Muh'd Okbi

Some (sex/stage not stated) to Prof. O.
Duboscq, Montpellier, France 10.II.1914.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1123

N 1123 MISSING

Ixodes canisuga 1 ♂
(mounted on a slide dry)

Gowanburn, N. Tyne

5.V.1901

Presented by Mr. E. G. Wheeler

Mr. Wheeler writes 25.VI.1910 it is "the only specimen I have ever seen"... "I feel sure that the males of this species are not to be found (unless accidentally) on a host at all & that if wanted the way to get them would be to keep dogs or ferrets in old kennels or boxes where the ticks would find harbourage and seek for them between the boards etc. I referred to this in my account of "British Ticks". This specimen may have come from a dog kennel.

This specimen was probably the ♂ cited by Wheeler (1906: 414) as Ixodes hexagonus var. inchoatus.

N 1124

N 1124 MISSING

Ixodes ricinus 2 ♀'s

Dog

Godesberg on the Rhine

22.VI.1910

F. v. Rigal's gamekeeper

G.H.F.N. det.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1125	N	1125
		RML	110000
	<u>Rhipicephalus sanguineus</u> 2 ♀, 2 N		2 ♀, 2 N <u>Rhipicephalus sanguineus</u>
	Fowl		Fowl
	Biskra, Algeria		Biskra (34.51 N, 05.44 E), Algeria
	6.VI.1910		6.VI.1910
	Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)		Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)
	Collected with <u>A. persicus</u> larvae		
N	1126	N	1126
		RML	110001
	<u>Rhipicephalus sanguineus</u> ♀'s, N's		1 ♀, 17 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Biskra, Algeria		Biskra (34.51 N, 05.44 E), Algeria
	3.VI.1910		3.VI.1910
	Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)		Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)
N	1127	N	1127 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dogs		
	Biskra, Algeria		
	3-7.VI.1910		
	Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1128	N	1128
		RML	110002
	<u>Rhipicephalus sanguineus</u> N's		34 N <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Biskra, Algeria		Biskra (34.51 N, 05.44 E), Algeria
	6-8.VI.1910		6-8.VI.1910
	Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)		Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)
N	1129	N	1129
		RML	110003
	<u>Hyalomma aegyptium</u> N's		2 N <u>Hyalomma</u> sp.
	Rabbit		Rabbit
	Biskra, Algeria		Biskra (34.51 N, 05.44 E), Algeria
	6.VI.1910		6.VI.1910
	Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)		Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)
N	1130	N	1130
		RML	110004
	<u>Argas persicus</u>		3 ♂, 1 ♀ <u>Argas persicus</u>
	Fowl		Fowl
	Biskra, Algeria		Biskra (34.51 N, 05.44 E), Algeria
	3.VI.1910		3.VI.1910
	Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)		Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1131	N	1131
		RML	110005
	<u>Argas persicus</u> 3 larvae (gorged)		3 L <u>Argas persicus</u>
	Fowl		Fowl
	Biskra, Algeria		Biskra (34.51 N, 05.44 E), Algeria
	6.VI.1910		6.VI.1910
	Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)		Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)
	Found with 1025		
N	1132	N	1132 MISSING
	<u>Ixodes unicavatus</u> 1 larva		
	Cormorant		
	Fidra Point, Firth of Forth, Scotland		
	17.XI.1906		
	W. Evans		
	Found with ♀, N, & L. Rec'd 25.VI.1910. The N of this lot figured by G.H.F.N.		
	also		
	<u>Ixodes putus</u> 1 N off gannet, Bass Scotland ca. 15.VI.1910 W. Evans coll. determined by G.H.F.N. and returned 4.VII.1910.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1133

N 1133

RML 110006

Aponomma laeve 2 ♂2 ♂ Aponomma latumSay's snake (Pituophis sayi)
(Schlegel)Pituophis sayi

Zool. Soc. Gardens, London

Zoological Society Gardens,
London (51.30 N, 00.07 W), England

Presented 2.VII.1910

Presented 2.VII.1910

W. H. Harding (Histon)

W. H. Harding (Histon)

The snake had been at the
Zoological Gardens since
18.V.1909.

N 1134

N 1134

RML 110007

Ixodes angustus 9N, 5 L8 N, 5 L Ixodes angustus

Squirrels

Squirrels

Mt. Lehman, British Columbia,
CanadaMt. Lehman (49.07 N, 122.23 W),
British Columbia, Canada

Sent 7.VI.1910

Sent 7.VI.1910

Sent by S. Hadwen

Sent by S. Hadwen

[1 N mounted in balsam on slide
VI.1915 G.H.F.N.]Cited: Nuttall et al. (1911:
197, figs. 189, 190).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1135	N	1135
		RML	110008
	<u>Ixodes</u> sp. 4 N		4 N <u>Ixodes rugosus</u>
	Skunk		Probably <u>Mephitis mephitis</u>
	Mt. Lehman, British Columbia, Canada		Mt. Lehman (49.07 N, 122.23 W), British Columbia, Canada
	16.II.1910		16.II.1910
	S. Hadwen		S. Hadwen
	Hadwen believes them to be <u>I. texanus</u> but we find they differ considerably from the ♀ suggesting to Hadwen that he should raise some as the matter cannot be settled otherwise.		
N	1136	N	1136 MISSING
	<u>Dermacentor albipictus</u> 1 ♂, 2 ♀		
	Rec'd 10.VII.1910		
	Rec'd from Mr. C. Gordon Hewitt, Central Experimental Farm, Ottawa, Ontario, Canada		
N	1137	N	1137
		RML	110009
	<u>Ixodes canisuga</u> 7 ♀, 1 N		7 ♀, 1 N <u>Ixodes canisuga</u>
	Ferret		<u>Mustela furo</u>
	(♀) Longner Hall, Shrewsbury (N) Oxon, Salop		(♀) Longner Hall, Shrewsbury (52.43 N, 02.44 W) and (N) Oxon, Shropshire (52.40 N, 02.35 W), England
	(♀) 29.VI.1910 (N) 27.VI.1910		(♀) 29.VI.1910 (N) 27.VI.1910
	Sent by R.F.L. Burton		Sent by R.F.L. Burton

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1138	N	1138
	<u>Ixodes canisuga</u> ♀'s	RML	110010
	Ferret		9 ♀ <u>Ixodes canisuga</u>
	Longner Hall, Shrewsbury		<u>Mustela furo</u>
	5.VII.1910		Longner Hall, Shrewsbury (52.43 N, 02.44 W), England
	Sent by R.F.L. Burton		5.VII.1910
			Sent by R.F.L. Burton
N	1139	N	1139
	<u>Hyalomma syriacum</u> ♂'s, ♀'s	RML	110011
	Tortoise		6 ♂, 4 ♀ <u>Hyalomma aegyptium</u>
	Longner Hall, Shrewsbury		Tortoise
	7.VII.1910		Longner Hall, Shrewsbury (52.43 N, 02.44 W), England
	Sent by R.F.L. Burton		7.VII.1910
			Sent by R.F.L. Burton
N	1140	N	1140 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Dogs, asses, bullocks & horses		
	Nowshera Cavalry Cantonment, N.W. Frontier Province, India		
	9.VI.1910		
	Capt. A. B. Fry, I.M.S.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1141, a	N	1141
	(1141) <u>Ixodes canisuga</u> 3 (out of 8) ♀'s	RML	110012
	(a) <u>Ixodes canisuga</u> larvae (progeny of ♀'s of lot 1141)		(1141) 1 ♀ <u>Ixodes lividus</u>
	Sand Martin's nest		(a) MISSING
	Banks of the Severn		<u>Riparia riparia</u> nest
	9.VII.1910		Banks of the River Severn (51.36 N, 02.38 W), England
	R.F.L. Burton		9.VII.1910
	"As many as four were fixed to the top of the head of one young bird"		R.F.L. Burton
			Cited: Nuttall et al. (1911: 214). Arthur (1963: 91, 92) indicated 3 ♀ and larvae present at that date; Thompson (1967: 106).
N	1142	N	1142
	<u>Ixodes caledonicus</u> 1 N, 2 L TYPES	RML	110013
	Young domestic pigeon		3 L <u>Ixodes caledonicus</u> Paralectotype
	Dunipace, Stirlingshire		<u>Columba livia</u>
	18.IV.1910		Dunipace (56.01 N, 03.55 W), Stirlingshire, Scotland
	W. Evans (Edinburgh)		18.IV.1910
	(2 N & 5 L returned to Mr. E.)		W. Evans (Edinburgh)
			Nuttall (1910: 408), original description. Cited: Nuttall & Warburton (1911: 200). Paralectotype designated: Keirans & Brewster (1981: 164).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1143a-c

N 1143a, c

RML 56922 & 66150

- (a) Ixodes canisuga 18 ♂'s
 (b) Ixodes canisuga ♀'s, N's (gorged)
 (c) Ixodes canisuga larvae (progeny
 from ♀'s of 1143b)

- (a) 1 ♂ Ixodes lividus
 (b) MISSING
 (c) 82 L Ixodes lividus

Sandmartin's nests
 (c) raised on hedgehogs, 1911

Riparia riparia nests
 (c) Erinaceus europaeus

Banks of the Severn River

Banks of Severn River
 (51.36 N, 02.38 W), England

11.VII.1910

11.VII.1910

Mr. Richard F. L. Burton

Mr. Richard F. L. Burton

Sent to me alive. Many ♂ & ♀'s in
 copula, ♂ repeatedly copulated with
 ♀'s in dishes in laboratory, they
 dropped off readily when disturbed.
 Some ♀'s put aside to oviposit.

The RML collection contains 1 ♂ from
 the Bishopp collection (B3230)
 (RML 56922) and 1 ♂ from the USNM
 collection (RML 66150).
 Cited: Nuttall & Warburton (1911:
 214); Arthur (1963: 91, 92);
 Thompson (1967: 106).

1 ♂ to Prof. Dr. Gestro, Museo
 Civico di Storia Nat. Genova, VII.1914;
 1 ♂ to Prof. Dr. Schenkling, Deutsches
 Entomol. Mus. VII. 1914; 1 ♂ to Prof.
 Dr. Dahl, Berlin Museum, VII.1914;
 1 ♀ to Prof. R. Matheson, Cornell,
 27.V.1929.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1144

N 1144

RML 110014

Haemaphysalis leporispalustris
3 ♂, 1 ♀2 ♂, 2 ♀ Haemaphysalis leporispalustrisLepus americanusLepus americanus

Aweme, Manitoba, Canada

Aweme (49.43 N, 99.36 W) Manitoba,
Canada.

13.V.1910

13.V.1910

Sent by S. Hadwen

Sent by S. Hadwen

(See 1196)

British Columbia is the province
listed on vial label.Cited: Nuttall & Warburton (1915:
394).

N 1145

N 1145

RML 110015

Dermacentor venustus 2 ♂, 2 ♀2 ♂, 2 ♀ Dermacentor andersoni

Horse

Horse

Osoyoos, B.C., Canada

Osoyoos (49.02 N, 119.28 W),
British Columbia, Canada

1.V.1910

1.V.1910

S. Hadwen

S. Hadwen

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1146	N	1146
		RML	110016
	<u>Dermacentor venustus</u> 2♂, 1 ♀		2 ♂, 1 ♀ <u>Dermacentor andersoni</u>
	Horse		Horse
	Osoyoos, B.C., Canada		Osoyoos (49.02 N, 119.28 W), British Columbia, Canada
	11.V.1910		11.V.1910
	S. Hadwen		S. Hadwen
			1 ♂, 1 ♀ of the above total are pinned specimens.
N	1147	N	1147
		RML	110017
	<u>Dermacentor andersoni</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Dermacentor andersoni</u>
	<u>Lepus americanus</u>		<u>Lepus americanus</u>
	Tuesbank, Manitoba, Canada		Probably Treesbank (49.38 N, 99.36 W), Manitoba, Canada
	13.V.1910		13.V.1910
	S. Hadwen		S. Hadwen
	S. Hadwen det. as <u>D. occidentalis</u> . We consider <u>D. andersoni</u> a variety of <u>D. venustus</u> .		Above specimens are mounted on a slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1148	N	1148
		RML	110018
	<u>Dermacentor variabilis</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Dermacentor variabilis</u>
	Man		Man
	Aweme, Manitoba, Canada		Aweme (49.43 N, 99.36 W), Manitoba, Canada
	V.1910		V.1910
	S. Hadwen (sender)		S. Hadwen (sender)
	S. Hadwen det. as <u>D. occidentalis</u>		I believe N 3504 is also part of this collection [J.E.K.].
N	1149	N	1149
		RML	110019
	<u>Amblyomma geayi</u> 4 ♀		3 ♀ <u>Amblyomma geayi</u> Lectotype and paralectotype of <u>A. v-notatum</u>
	Sloth, <u>Bradypus tridactylus</u>		<u>Bradypus tridactylus</u>
	Manãos, Brazil		Manãos (03.08 S, 60.01 W), Brazil
	1903		1903
	T. P. Beddoes		T. P. Beddoes
	Rec'd from Mr. Beddoes 13.VII.1910. Types of <u>Amblyomma v-notatum</u>		Nuttall (1910: 412) original description. Cited: Robinson (1926: 61). Lectotype designated: Keirans & Brewster (1981: 157). See also N 3125.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1150

N 1150

RML 110020

Dermacentor circumguttatus 3 ♂, 2 ♀3 ♂, 2 ♀ Dermacentor circumguttatus(♂) off ?
(♀) off ? elephant(♂) off ?
(♀) off ? Loxodonta africana

Masindi, Uganda

Masindi (01.41 N, 31.43 E), Uganda

8.V.1910

8.V.1910

N 1151

N 1151

RML 110021

Argas vespertilionis 10 L10 L Argas vespertilionisPipistrellus pipistrellusPipistrellus pipistrellus

Oristano, Sardinia

Oristano (39.54 N, 08.35 E),
Sardinia

V.1907

V.1907

Dr. Krausse

Dr. Krausse

[R. 296]

N 1152

N 1152

RML 110022

Argas vespertilionis 6 L6 L Argas vespertilionisVesperugo pipistrellusPipistrellus pipistrellus

Tring, Herts., England

Tring (51.48 N, 00.40 W), Herts.,
England

1.IX.1898

1.IX.1898

[R. 244]

ORIGINAL DETERMINATIONCURRENT STATUS

N 1153

N 1153

RML 110023

Argas vespertilionis 2 L2 L Argas vespertilionis

No particulars

No particulars

[R 244]

N 1154

N 1154

RML 110024

Argas vespertilionis 2 L2 L Argas (Carios) sp.

Perth, W. Australia

Perth (31.56 S, 115.50 E), Australia

[R 271]

These specimens may represent a new species. It is not Argas australiensis, A. dewae or A. daviesi.

N 1155

N 1155

RML 66882

Amblyomma marmoreum 2 ♂, 2 ♀1 ♀ Amblyomma falsomarmoreum

Land tortoise

Land tortoise

Guildessa, Somali Democratic Republic (locality not verified)

30.VII.1910

30.VII.1910

E. Brumpt collection

E. Brumpt collection

1 ♀ to Prof. R. A. Cooley V.1928.

1 ♂ of this collection is in the RML collection.

Cited (without N number): Robinson (1926: 89) , who spelled the locality Gueldessa.

Cited: Theiler & Salisbury (1959: 117).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1156	N	1156
		RML	110025
	<u>Rhipicephalus pulchellus</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Rhipicephalus pulchellus</u>
	Zebra		<u>Equus burchelli</u>
	Mt. Finke Moulon		Monte Fiche (07.34 N, 38.30 E), Ethiopia
	30.VII.1910		30.VII.1910
	H. Brumpt collection		H. Brumpt collection
N	1157	N	1157
		RML	110026
	<u>Amblyomma marmoreum</u> 2 ♂, 1 ♀		3 ♂ <u>Amblyomma marmoreum</u> Pinned specimens (one abnormal)
	Land tortoise		Land tortoise
	30.VII.1910		30.VII.1910
	H. Brumpt collection		H. Brumpt collection
N	1158	N	1158
		RML	110027
	<u>Amblyomma gemma</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Amblyomma gemma</u>
	Fed attached side by side, off		<u>Phacochoerus aethiopicus</u>
			Sagak, Somali Democratic Republic (locality not verified)
	30.VII.1910		11.VII.1901
	H. Brumpt collection		H. Brumpt collection
			Vial label gives partial information - host, Phocochoe, Sacak, Somaliland; other information from Robinson (1926: 122).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1159

Ixodes hexagonus N'sMustela erminea

Tring, Herts.

10.IV.1902

[R 142]

N 1159

RML 115865

3 N Ixodes hexagonusMustela ermineaTring (51.48 N, 00.40 W),
Herts., England

10.IV.1902

One nymph of this collection was
donated to RML by P. A. Buxton,
London School of Hygiene and
Tropical Medicine in 1940.Cited: Nuttall & Warburton
(1911: 182).

N 1160

Ixodes hexagonus L's

Fox cub

Boxworth

30.III.1900

[R 194]
2 L to Prof. R. Matheson,
Cornell, 27.V.1929

N 1160

RML 110028

17 L Ixodes hexagonusVulpes vulpes (cub)Boxworth (52.16 N, 00.02 W),
England

30.III.1900

Cited: Nuttall & Warburton
(1911: 182).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1161	N	1161
		RML	110029
	<u>Ixodes tenuirostris</u> ♀		1 ♀ <u>Ixodes trianguliceps</u>
	Tarasp, Switzerland		Tarasp (46.38 N, 10.25 E), Switzerland
	Summer 1901		Summer 1901
	[R 278]		Cited: Nuttall & Warburton (1911: 248).
N	1162	N	1162
		RML	110030
	<u>Ixodes</u> sp. 2 L		2 L <u>Ixodes</u> sp.
	<u>Dromicia concinna</u>		<u>Cercartetus concinnus</u>
			Australia
	[R 207]		The nocturnal marsupial <u>C. concinnus</u> inhabits the southern part of western and central Australia
N	1163	N	1163
		RML	110031
	<u>Argas vespertilionis</u> L's		13 L <u>Argas vespertilionis</u>
	<u>Vesperugo pipistrellus</u>		<u>Pipistrellus pipistrellus</u>
	Galding, Kent		Yalding (51.14 N, 00.26 E), Kent, England
	8.VIII.1897 (However, 1997 was written)		8.VIII.1897
	W.R.O.G.		W.R.O.G.
	[R 247]		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1164

N 1164

RML 110032

Argas sp. L's5 L Argas boueti

Either Phalacrocorax graculus,
Cromarty, or Megaderma cor,
 Salamana Havish, 4,500 ft.
 (Number on cork defaced)

Megaderma cor

Salamana, Havish,
 (locality not verified)

[R 250, 251]

Megaderma cor ranges in East Africa
 from Ethiopia to Tanzania

The correct Rothschild number
 for this collection is R 251.
 For R 250 see Nuttall 667.

N 1165

N 1165

RML 110033

Ixodes tenuirostris 4 ♀4 ♀ Ixodes trianguliceps

Field vole

Microtus agrestis

Longner Hall, Shrewsbury

Longner Hall, Shrewsbury
 (52.43 N, 02.44 W), England

1.VIII.1910

1.VIII.1910

R.F.L. Burton

R.F.L. Burton

Cited: Nuttall & Warburton (1911:
 248); Thompson (1968: 146).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1166	N	1166
		RML	110034
	10 nymphs (species not stated)		10 N <u>Amblyomma</u> sp.
	<u>Mus escularis</u>		<u>Mus escularis</u> (name not verified)
	St. Aignan		Possibly Misima Island (10.41 S, 152.42 E), Louisiade Archipelago, Papua New Guinea
	VIII-XI		VIII-XI
	(Meek)		(Meek)
	[R 230]		Misima Island was formerly known as St. Aignan.
N	1167, a	N	1167, a
		RML	110035
	(1167) <u>Ixodes</u> sp. 2 N		(1167) 2 N <u>Ixodes</u> sp.
	(a) <u>Hyalomma aegyptium</u> 1 ♂		(a) 1 ♂ <u>Hyalomma truncatum</u>
	A "Sasaby" a bastard hartebeest (<u>Damaliscus lunatus</u>)		<u>Damaliscus lunatus</u>
	S. Africa		Republic of South Africa
	[R 186]		
N	1168	N	1168
		RML	110036
	<u>Ixodes hexagonus</u> 1 ♀, 5 N		1 ♀, 5 N <u>Ixodes hexagonus</u>
	Ferrets		<u>Mustela furo</u>
	Kittendorf, Mecklenburg-Schwerin, Germany		Kittendorf (53.38 N, 12.54 E), German Democratic Republic
	26.VI.1910		26.VI.1910
	G. von Oertzen's gamekeeper		G. von Oertzen's gamekeeper
			Cited: Nuttall & Warburton (1911: 183).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1169	N	1169 MISSING
<u>Ixodes ricinus</u> 7 ♀			
Dogs			
Kittendorf, Mecklenburg-Schwerin, Germany			
26.VI., 10, 19, 21, 25, 26.VI.1910			
G. von Oertzen's gamekeeper			
N	1170	N	1170 MISSING
No determination			
Fox			
Kittendorf, Mecklenburg-Schwerin, Germany			
16.IV.1910			
G. von Oertzen's gamekeeper			
N	1171	N	1171
		RML	110037
<u>Ixodes schillingsi</u> 1 ♀, 2 N		1 ♀ <u>Ixodes schillingsi</u> Syntype	
<u>Colobus caudatus</u>		<u>Colobus guereza caudatus</u>	
German East Africa		Tanzania	
Presented 9.VIII.1910		Presented 9.VIII.1910	
Presented by the Zoological Museum, Berlin		Presented by the Zoological Museum, Berlin	
Attached to the eyes		Neumann (1901: 288), original description.	
From among Neumann's Types		Cited: Nuttall & Warburton (1911: 241); Arthur (1957a: 544).	
		The nymphs were lost in transit to Dr. D. E. Sonenshine, Old Dominion University, Norfolk, Virginia in 1969.	

ORIGINAL DETERMINATIONCURRENT STATUS

N 1172

N 1172 MISSING

Hyalomma aegyptium ♂ ♀

Sheep

Slaughter house, Algiers

Summer 1910

M. Serge

Sent by Dr. Edmond Sergent
8.VIII.1910

N 1173

N 1173

RML 110038

Rhipicephalus bursa ♂, ♀27 ♂, 13 ♀ Rhipicephalus bursa

Sheep

Sheep

Slaughter house, Algiers

Slaughter house, Algiers
(36.42 N, 03.08 E), Algeria

Summer 1910

Summer 1910

M. Serge

M. Serge

Sent by Dr. Edmond Sergent
8.VIII.1910

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1174	N	1174
		RML	110039
	<u>Rhipicephalus bursa</u> ♂		1 ♂ <u>Rhipicephalus bursa</u>
	Horse		Horse
	Slaughter house, Algiers		Slaughter house, Algiers (36.42 N, 03.08 E), Algeria
	Summer 1910		Summer 1910
	M. Serge		M. Serge
	Sent by Dr. Edmond Sergent 8.VIII.1910		
N	1175	N	1175 MISSING
	<u>Hyalomma aegyptium</u> ♂, ♀		
	Horse		
	Slaughter house, Algiers		
	Summer 1910		
	M. Serge		
	Sent by Dr. Edmond Sergent 8.VIII.1910		
N	1176	N	1176
		RML	110040
	<u>Rhipicephalus sanguineus</u> ♂, ♀, N		7 ♂, 10 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Slaughter house, Algiers		Slaughter house, Algiers (36.42 N, 03.08 E), Algeria
	Summer 1910		Summer 1910
	M. Serge		M. Serge
	Sent by Dr. Edmond Sergent 8.VIII.1910		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1177

N 1177

RML 110041

Boophilus australis ♀8 ♀ Boophilus annulatus

Cattle

Cattle

Slaughter house, Algiers

Slaughter house, Algiers
(36.42 N, 03.08 E), Algeria

Summer 1910

Summer 1910

M. Serge

M. Serge

Sent by Dr. Edmond Sergent
8.VIII.1910

N 1178

N 1178 MISSING

Ixodes ricinus 2 ♀

Cattle

Slaughter house, Algiers

Summer 1910

M. Serge

Sent by Dr. Edmond Sergent
8.VIII.1910

ORIGINAL DETERMINATIONCURRENT STATUS

N 1179

N 1179

RML 110042

Hyalomma aegyptium ♂, ♀16 ♂, 12 ♀ Hyalomma marginatum

Cattle

Cattle

Slaughter house, Algiers

Slaughter house, Algiers
(36.42 N, 03.08 E), Algeria

Summer 1910

Summer 1910

M. Serge

M. Serge

Sent by Dr. Edmond Sergent
8.VIII.1910Some (sex/stage not stated) to
Dr. Longin Navas, Zaragoza,
Spain 28.V.1913

N 1180 a-c

N 1180 b

RML 110043

(a) Amblyomma cajennense ♀'s

(a) MISSING

(b) Boophilus annulatus ♀'s(b) 84 ♀ Boophilus microplus(c) Boophilus annulatus 1 ♂

(c) MISSING

Cows

Cows

Mérida, Yucatán, Mexico

Mérida (20.58 N, 89.37 W),
Yucatán, Mexico

Presented 4.IX.1910

Presented 4.IX.1910

Presented by Dr. Harald Seidelin

Presented by Dr. Harald Seidelin

ORIGINAL DETERMINATIONCURRENT STATUS

N 1181 N 1181 MISSING

Ixodes ricinus 2 ♀'s

Dog

Godesberg a Rh., Germany

8.IX.1910

G.H.F. Nuttall

N 1182 N 1182 MISSING

Ixodes ricinus 1 ♂, 3 ♀

Roebuck

Schwandt bei Möhln,
Mecklenburg-Schwerin

13.IX.1910

Count Schlieffen's gamekeeper

N 1183 N 1183 MISSING

Ixodes ricinus 1 ♀

Horse

Vossfeld, bei Möhln,
Mecklenburg-Schwerin

25.VII.1910

Rec'd from Count Schlieffen

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1184	N	1184 MISSING
	<u>Ixodes ricinus</u> 1 ♀, 1 N		
	Dog		
	Rosenow, near Möhln, Mecklenburg-Schwerin		
	11.VII.1910		
	Rec'd from Count Schlieffen		
N	1185	N	1185 MISSING
	<u>Ixodes ricinus</u> 1 ♂		
	Dog		
	Near Maam Cross, Co. Galway		
	1.X.1910		
	G.H.F. Nuttall		
	Said to infest wooded islands in lake.		
N	1186 a, b	N	1186 b
	(a) <u>Ixodes ricinus</u> 2 ♀		(a) MISSING
	(b) <u>Ixodes hexagonus</u> 1 ♀	RML	110044
	Dog		Dog
	Godesberg a. Rh., Germany		Bad Godesberg (50.41 N, 07.09 E) Federal Republic of Germany
	1.VII.1910		1.VII.1910
	Baron von Rigal's gamekeeper		Baron von Rigal's gamekeeper
			Cited: Nuttall & Warburton (1911: 183).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1187	N	1187
		RML	110045
	<u>Ornithodoros talaje</u> var. <u>capensis</u>		61 ♂, 39 ♀, 81 N, 68 L <u>Ornithodoros capensis</u>
	Penguin nests		Penguin nests
	"adjacent to this coast" South Africa		"adjacent to this coast" Republic of South Africa
	Sent 24.VIII.1910		Sent 24.VIII.1910
	Sent by Charles K. Brain		Sent by Charles K. Brain
	Received alive and dead		
N	1188	N	1188
		RML	110046
	<u>Amblyomma cyprium</u> 1 ♀		1 ♀ <u>Amblyomma cyprium</u>
	Cow		Cow
	Tavenni, Fiji		Tavenni, Fiji (locality not verified)
	13.VII.1910		13.VII.1910
	F. P. Jepson		F. P. Jepson
	Sent to Nn (Neumann - J.E.K.) for examination & returned 31.X.1910. He writes that we have determined it correctly, that it is exactly like his specimen, except for the size: the hairs are thick (not large) and white; the porose areas "which I described as 'large' are not so in reality (a fresh example of the inconvenience of term lacking in precision; I now compare them to the eyes and say 'twice as small as the eyes'); article 1 of the palps is slightly prominent & trenchant ventrally when seen in profile."		Cited: Robinson (1926: 238).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1189	N	1189
		RML	110047
	<u>Rhipicephalus sanguineus</u> 1 N		1 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Fanning Island (3.8° N, 159.3 W between Hawaii and Fiji, Polynesia		Fanning Island (03.52 N, 159.20 W) Line Islands
			1910
			F. P. Jepson
			Date and collector from vial label
N	1190	N	1190 MISSING
	(Gamasic mites)		
	<u>Mus concolor</u>		
	Rangoon, India		
	7.VII.1910		
	Sent by Dr. H. H. Marshall (Royal Hotel, Rangoon)		
N	1191	N	1191 MISSING
	(Gamasic mites)		
	<u>Nesokia bengalensis</u>		
	Rangoon, India		
	19.VII.1910		
	Sent by Dr. H. H. Marshall		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1191 a	N	1191 a
		RML	110048
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		12 ♂, 10 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Rangoon, India		Rangoon (16.47 N, 96.10 E), Burma
	26.VI.1910		26.VI.1910
	Sent by Dr. H. H. Marshall		Sent by Dr. H. H. Marshall
N	1192	N	1192
		RML	110049
	<u>Argas vespertilionis</u> L		1 L <u>Argas vespertilionis</u>
	Bat		Bat
	Longner Hall, Shrewsbury		Longner Hall, Shrewsbury (52.43 N, 02.44 W), England
	21.VIII.1910		21.VIII.1910
	R.F.L. Burton		R.F.L. Burton
			The bat's leg is also present but the larva is not attached.
N	1193	N	1193
		RML	110053
	<u>Ixodes hexagonus</u> N		1 N <u>Ixodes hexagonus</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	Near Longner Hall, Leebotwood, Salop		Near Longner Hall, Leebotwood (52.35 N, 02.47 W) Shropshire, England
	22.IX.1910		22.IX.1910
	R.F.L. Burton		R.F.L. Burton
			Cited: Nuttall & Warburton (1911: 182); Longner is misspelled Longnor in that citation.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1194

Ixodes hexagonus 1 ♀, 2 N

Weasel

Claverdon Leys, Warwick

21.IX.1910

E. G. Wheler

N 1194

RML 110054

1 ♀, 2 N Ixodes hexagonusMustela nivalisClaverdon (52.16 N, 01.42 W),
Warwickshire, England

21.IX.1910

E. G. Wheler

Cited: Nuttall & Warburton (1911:
182).

N 1195

Ixodes angustus ♂ & ♀
in copula
(♂) Lepus dalli
(♀) Sciurus hudsonicus douglassiMt. Lehman, British Columbia,
Canada

24.VII.1910

S. Hadwen

N 1195

RML 110055

1 ♂, 1 ♀ Ixodes angustus(♂) Lepus americanus dalli
(♀) Tamiasciurus d. douglasiMt. Lehman (49.07 N, 122.23 W),
British Columbia, Canada

24.VII.1910

S. Hadwen

Cited: Nuttall & Warburton (1911:
197).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1196

N 1196

RML 110056

Haemaphysalis leporispalustris var.?2 ♂, 1 ♀, 1 L Haemaphysalis leporispalustrisLepus dalliLepus americanus dalliPeardonville, British Columbia,
CanadaPeardonville (49.01 N, 122.24 W),
British Columbia, Canada

17.VI.1910

17.VI.1910

From S. Hadwen

From S. Hadwen

Differ slightly in size from 1144
only a variety of Haem. palustris.
C. W. notes only H. palustris var.
at most characterized by more
protuberant 2nd palpal articles
(our Banks & Hunter specimens show
this variation) & shorter ♀ scutum.
All have a rather peculiar character-
istic, slight auriculae.

Cited: Nuttall & Warburton (1915;
394).

N 1197

N 1197

RML 110057

Dermacentor venustus 2 ♂2 ♂ Dermacentor andersoni

Horse

Horse

Osoyoos, British Columbia, Canada

Osoyoos (49.02 N, 119.28 W),
British Columbia, Canada

11.V.1910

11.V.1910

From S. Hadwen

From S. Hadwen

ORIGINAL DETERMINATIONCURRENT STATUS

N 1198

Amblyomma americanum 1 ♂

Off grass

Awema, Montana

J. B. Wallis

N 1198

RML 110058

1 ♂ Amblyomma americanum

Off grass

This is undoubtedly Aweme, Manitoba (see N 1144 & N 1148). However, A. americanum does not naturally occur here. It must be an accidental introduction.

J. B. Wallis

Robinson (1926: 48) lists Montana as a locality for A. americanum. Although no Nuttall number is given, I believe he means this collection.

N 1199

Dermacentor albipictus larvae

♀ taken at Okanagan Falls,
British Columbia, Canada

Sent 30.VIII.1910

Raised and sent by C. Gordon
Hewitt

Larvae raised in laboratory from ♀

N 1199

RML 110059

11 L Dermacentor albipictus

♀ taken at Okanagan Falls (49.21 N,
119.34 W), British Columbia, Canada

Sent 30.VIII.1910

Raised and sent by C. Gordon Hewitt

ORIGINAL DETERMINATIONCURRENT STATUS

N 1200

N 1200

RML 110060

Ixodes caledonicus 2 N
TYPES2 N Ixodes caledonicus
Paralectotype

Young domestic pigeon

Columba livia

Dunipace, Stirlingshire

Dunipace (56.01 N, 03.55 W),
Stirlingshire, Scotland

9.VIII.1910

9.VIII.1910

Mr. Wm. Evans

Mr. Wm. Evans

(1 ♀, 2 N returned to W. Evans)

Nuttall (1910: 408), original
description.Vial label date reads 18.IV.1910
but catalogue date of 9.VIII.1910
is given by Nuttall & Warburton
(1911: 200). Paralectotype
designated: Keirans & Brewster
(1981: 164).

N 1201

N 1201

RML 110061

Rhipicephalus neavei var.
punctatus ♂, ♀, 2 N1 ♂, 1 ♀, 2 N Rhipicephalus pravus

Abyssinia

Ethiopia

1901

1901

H. Brumpt

H. Brumpt

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1202	N	1202
		RML	110062
	<u>Rhipicephalus neavei</u> var. <u>punctatus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Rhipicephalus pravus</u>
	Antelope		Antelope
	Harar, Abyssinia		Harar (09.19 N, 42.09 E), Ethiopia
	VI.1901		VI.1901
	H. Brumpt		H. Brumpt
	Our determination (as <u>R. oculatus</u>) confirmed by Nn (Neumann) 4.VIII.1910 but since wrong since we saw types of <u>oculatus</u> at Berlin, see N 850.		
N	1203	N	1203 MISSING
	<u>Haemaphysalis calcarata</u> 1 ♂		
	<u>Xerus rutilus</u>		
	Halte de Biacobaba, Somaliland		
	IV.1901		
	H. Brumpt		
N	1204	N	1204 MISSING
	No determination 1 N		1 N <u>Dermacentor</u> sp.
	Campagnol		Vole
	M. Bessin		M. Bessin
	1908		1908
	H. Brumpt		H. Brumpt
			This specimen was inadvertently lost after determination.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1205

N 1205

RML 110063

Aponomma trimaculatum 2 ♀1 ♀ Aponomma trimaculatumIguana (? Varanus)Iguana (? Varanus)

Port Darwin

Darwin (12.28 S, 130.50 E),
Australia

Sent 22.VI.1910

Sent 22.VI.1910

Sent by Col. A. Alcock

Sent by Col. A. Alcock

L.E.R. det.

(1 ♂ mutilated & 1 ♀ returned)

N 1206

N 1206

RML 22307

Amblyomma australiense 1 ♂1 ♂ Amblyomma australienseIguana (? Varanus)Iguana (? Varanus)

Port Darwin

Darwin (12.28 S, 130.50 E),
Australia

Sent 22.VI.1910

Sent 22.VI.1910

Sent by Col. A. Alcock

Sent by Col. A. Alcock

(1 ♂, 1 ♀ returned to Col. Alcock)

L.E.R. det.

3 slides of dissections present

(1) ♂ hypostome

(2) ♂ spiracular plate

(3) ♂ legs I & IV

Cited: Robinson (1926: 137).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1207	N	1207
		RML	110064
	<u>Haemaphysalis punctata</u> ♀'s		6 ♀ <u>Haemaphysalis punctata</u>
	Sheep		Sheep
	Ashford, Kent		Ashford (51.08 N, 00.53 E), Kent, England
	V.1906		V.1906
	Spanton		Spanton
	Ex W. F. Cooper coll., No. 234		Cited: Nuttall & Warburton (1915: 384).
	1 ♀ to J. de Meza, Zomba, Nyasaland, 19.II.1916.		
N	1208	N	1208
		RML	110065
	<u>Amblyomma cyprium</u> 1 ♂		1 ♂ <u>Amblyomma cyprium</u>
	Man's clothing		Man's clothing
	Daria, Vanna Leon, Fiji		Daria, Vanna Leon, Fiji (locality not verified)
	8.VII.1910		8.VII.1910
	F. P. Jepson		F. P. Jepson
	Found on clothing after marching through bush		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1209

Amblyomma cyprium 1 ♂

Wild bush pig

Taveuni, Fiji

29.V.1910

F. P. Jepson

G.H.F.N. det. X.1910

N 1209

RML 110066

1 ♀ Amblyomma cyprium

Wild bush pig

Taveuni Island (16.51 S, 179.58 W),
Fiji

29.V.1910

F. P. Jepson

N 1210

Rhipicephalus sanguineus
1 ♂ abnormal

Dog

Puri, Orissa Coast, India

Ex Indian Museum coll. 819a
17

N 1210

RML 110067

1 ♂ Rhipicephalus sanguineus

Dog

Puri (19.48 N, 85.51 E), Orissa,
IndiaThis specimen is in a jar marked
"Tick Abnormalities"
Cited and figured: Nuttall (1914a:
252), fig. 4, who gives the Indian
Museum collection number as 810a.
10The vial label gives the number
as 819.
17

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1211	N	1211
	<u>Ixodes</u> sp. 2 N	RML	110068
	<u>Tarsipes rostratus</u> or <u>Smiothopsis murinus</u>		2 N, 1 L <u>Ixodes fecialis</u>
	Albany, W. Australia		<u>Sminthopsis murina</u>
	21.XII.1900		Albany (35.02 S, 117.53 E), Australia
	B. H. Woodward		21.XII.1900-
	[R 237] Also a larva of ?		B. H. Woodward
			Vial label gives the host as <u>S. murinus</u> .
N	1212	N	1212
	<u>Ixodes</u> sp. 5 N	RML	110069
	Perth, W. Australia		5 N <u>Ixodes holocyclus</u>
	Woodward		Perth (31.56 S, 115.50 E), Australia
	[R 272]		B. H. Woodward
N	1213	N	1213
	<u>Ixodes fecialis</u> var. <u>aegrifossus</u> 1 ♀ (capitulum mutilated)	RML	110070
	<u>Perameles obesula</u>		1 ♀ <u>Ixodes fecialis</u>
	Bannister, W. Australia		<u>Isoodon obesulus</u>
	21.VIII.1900		Bannister (32.40 S, 116.33 E), Australia
	[R 216]		21.VIII.1900
			Cited: Nuttall & Warburton (1911: 259).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1214	N	1214
		RML	110071
	<u>Rhipicephalus simpsoni</u> 3 ♂, 3 ♀		2 ♂, 1 ♀ <u>Rhipicephalus simpsoni</u> Lectotype and paralectotypes
	Large rodent		Probably <u>Thryonomys</u> sp.
	Oshogbo, W. Africa		Oshogbo (07.46 N, 04.34 E), Nigeria
	28.II.1910		28.II.1910
	J. J. Simpson		J. J. Simpson
	(41b Entom. Res. Cttee)		<u>Rhipicephalus simpsoni</u> is almost restricted to cane rats.
			Nuttall (1910: 413), original de- scription; Santos Dias (1958: 477). Lectotype designated: Keirans & Brewster (1981: 171).
			The vulva of the ♀ has been removed and is now mounted on a slide.
N	1215	N	1215
		RML	110072
	<u>Ixodes ugandanus</u> 2 ♀		<u>Ixodes ugandanus</u> 2 ♀
	Large rodent		Probably <u>Thryonomys</u> sp.
	Oshogbo, W. Africa		Oshogbo (07.46 N, 04.34 E), Nigeria
	28.II.1910		28.II.1910
	J. J. Simpson		J. J. Simpson
	(41a Ent. Res. Cttee.)		Cited: Nuttall & Warburton (1911: 233).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1216

Ixodes ugandanus

Sheep

Ibesha, W. Africa

7.II.1910

J. J. Simpson

(40c Ent. Res. Cttee)

N 1216

RML 110073

1 N Ixodes sp.

Sheep

Ibese, Nigeria (there are four localities with this name)

7.II.1910

J. J. Simpson

Cited: Nuttall & Warburton (1911: 233).

N 1217

Amblyomma tholloni 3 ♂, 1 ♀

Elephant

Portuguese Congo

Dr. M. Gamble

(88 Ent. Res. Cttee. X.1910)

N 1217

RML 110074

3 ♂, 1 ♀ Amblyomma tholloniLoxodonta africana

Angola

Dr. Mercier Gamble

Cited: Robinson (1926: 253).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1218	N	1218
		RML	110075
	<u>Rhipicephalus neavei</u> 2 ♂, 2 ♀		1 ♂, 1 ♀ <u>Rhipicephalus kochi</u>
	Wart-hog		<u>Phacochoerus aethiopicus</u>
	S.W. shore of Lake Nyasa		S.W. shore of Lake Malawi, (13.35 S, 34.20 E), Malawi
	II.1910		II.1910
	(72a Ent. Res. Cttee.)		J. J. Simpson
			Collector's name on vial label. Along with a label stating that these specimens are cotypes of <u>R. neavei</u> .
N	1219	N	1219
		RML	110076
	<u>Hyalomma monstrosum</u> 1 ♂		1 ♂ <u>Nosomma monstrosum</u>
	TYPE		Holotype
	Horse		Horse
	Chin Hills, India		Chin Hills (22.30 N, 93.30 E), Burma
	1907		1907
	Sent by Mr. H. Maxwell-Lefroy (Imperial Entomologist of India)		Sent by Mr. H. Maxwell-Lefroy (Imperial Entomologist of India)
	Dissected and mounted on 4 slides Vide Nuttall & Warburton (I.1908) Proc. Camb. Phil. Soc. XIV, p. 414 figs. 41-45.		Nuttall & Warburton (1908: 414), original description. Schulze (1919: 191) placed this species in the genus <u>Nosomma</u> .
	Chin Hills are in the country between E. Bengal & Burma, just E. of Chittagong		This specimen on four slides: (1) body (2) portion of venter (3) capitulum & spiracle (4) tarsus IV

ORIGINAL DETERMINATIONCURRENT STATUS

N 1220

Hyalomma monstrosum 1 ♂

Buffalo

Angul

31.VII.1909

Mr. J. L. Bose, Veterinary
Assistant at Angul, BengalSent by Mr. D. Quinlan to
Mr. Howlett

N 1220

RML 110077

1 ♂ Nosomma monstrosum

Buffalo

Angul (20.51 N, 85.06 E), India

31.VII.1909

Mr. J. L. Bose, Veterinary
Assistant at Angul, BengalFrank Milburn Howlett (1877-1920)
Second Imperial Entomologist of
India (1907) and at the time of
his death Imperial Pathological
Entomologist at Pusa; a Diptera
specialist.Cited: Warburton (1918: 285);
Santos Dias (1958: 493).

N 1221

Amblyomma integrum 3 ♂, 3 ♀

Buffalo

Angul

31.VII.1909

J. L. Bose

Same lot as 1220

1 ♀ to C. Strickland, Malaya

N 1221

RML 110078

3 ♂, 2 ♀ Amblyomma integrum

Buffalo

Angul (20.51 N, 85.06 E), India

31.VII.1909

J. L. Bose

Cited: Robinson (1926: 114).

<u>ORIGINAL DETERMINATION</u>	<u>CURRENT STATUS</u>
N 1222 <u>Ixodes ugandanus</u> subsp. <u>djaronensis</u> 1 ♀ <u>Procavia brucei</u> Harar, Abyssinia V.1901 Dr. Brumpt A second ♀ returned to collector Nuttall & Warburton det. 28.XI.1910	N 1222 RML 110079 1 ♀ <u>Ixodes procaviae</u> <u>Heterohyrax brucei</u> Harar (09.19 N, 42.09 E), Ethiopia V.1901 Dr. Emile Brumpt Cited: Nuttall & Warburton (1911: 233).
N 1223 <u>Haemaphysalis leachi</u> 2♂, 1♀ <u>Helogale parvula</u> Harar, Abyssinia 10.V.1901 Dr. Brumpt Returning 2 ♂, 1 ♀ to collector	N 1223 RML 110080 2 ♂, 1 ♀ <u>Haemaphysalis leachi</u> <u>Helogale parvula</u> Harar (09.19 N, 42.09 E), Ethiopia 10.V.1901 Dr. Emile Brumpt Cited: Nuttall & Warburton (1915: 469); Hoogstraal (1956b: 169).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1224

N 1224

RML 110081

Haemaphysalis calcarata
3 ♂, 2 ♀, 1 N2 ♂, 1 ♀, 1 N Haemaphysalis calcarataXerus rutilusXerus rutilus

Bio Caboba, Somaliland

Bio Caboba (10.23 N, 42.34 E),
Ethiopia

11.IV.1901

11.IV.1901

Dr. Brumpt

Dr. Emile Brumpt

Returning 4 ♂, 2 ♀, 1 N to collector

Cited: Nuttall & Warburton (1915:
444); Hoogstraal (1955a: 362).

N 1225

N 1225

RML 110082

Rhipicephalus sanguineus 1 ♀
deformed1 ♂ Rhipicephalus sp.Helogale parvulaHelogale parvula

Harar, Abyssinia

Harar (09.19 N, 42.09 E), Ethiopia

10.V.1901

10.V.1901

Dr. Brumpt

Dr. Emile Brumpt

This specimen is in a jar marked
"Tick Abnormalities". Both catalogue
and vial label list this specimen
as a ♀ but it is a ♂.

Nuttall & Warburton (1915: 462)
mistakenly listed Nuttall 1225 as
H. leachi. The number should
read N 1223.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1226

Haemaphysalis inermis 1 ♀

Caucasia

Rec'd 14.XI.1910

Rec'd from Prof. A. Birula
(St. Petersburg)

N 1226

RML 110083

1 ♀ Haemaphysalis inermisKavkaz Region (42.00 N, 45.00 E),
USSR

Rec'd 14.XI.1910

Rec'd from Prof. A. Birula
(St. Petersburg)

Alexi Andreevitsch Bialintzky
Birula (1864-1937). Director of
the Zoological Museum, Leningrad.
Knowledgeable in the systematics
of Hymenoptera, scorpions, and
Solpugida.

This ♀ may be the holotype of H.
inermis - see Birula (1895: 360),
original description. Nuttall &
Warburton (1915: 366).

N 1227

Ixodes signatus 1 ♀

Unalashka

Rec'd 14.XI.1910

Rec'd from Prof. A. Birula
(St. Petersburg)

N 1227

RML 110084

1 ♀ Ixodes signatusUnalaska Island (53.45 N, 166.45 W),
Aleutian Islands, Alaska, USA

Rec'd 14.XI.1910

Rec'd from Prof. A. Birula
(St. Petersburg)

This ♀ is probably one of the
type series - see Birula (1895:
357), original description. Cited:
Nuttall & Warburton (1911: 264);
Keirans & Clifford (1978: 143).

<u>ORIGINAL DETERMINATION</u>	<u>CURRENT STATUS</u>
N 1228 <u>Amblyomma integrum</u> 2 ♂ Domesticated buffalo Talawa, Ceylon XI.1910 E.E. Green (Sent by C. Warburton)	N 1228 RML 22311 2 ♂ <u>Amblyomma integrum</u> Domesticated buffalo Talawa, Sri Lanka (There are 5 possible localities in Sri Lanka with the name Talawa). XI.1910 E.E. Green Cited: Robinson (1926: 114).
N 1229 <u>Amblyomma integrum</u> 2 ♀ Wild buffalo Hambantota, Ceylon XI.1910 E.E. Green (Sent to C. Warburton)	N 1229 RML 110085 2 ♀ <u>Amblyomma integrum</u> Wild buffalo Hambantota, (06.07 N, 81.07 E), Sri Lanka XI.1910 E.E. Green Cited: Robinson (1926: 114).

The collection of ticks sent by Mr. E.E. Green, F.E.S. (Government Entomologist, Peradiniya, Ceylon) also contained the following, which have been returned to him. They were determined by Mr. Warburton, VII, 1910: - 24, 37.) Haemaphysalis bispinosa (mostly immature), from horse, Peradiniya, VII.1909.----2525). Aponomma laeve var. paradoxum and Aponomma gervaisi, from body of cobra, Kandy, XI.1909---2620). Amblyomma sublaeve, from Pangolin (Manis pentadactyla), Peradiniya, III.1910--2716.) Aponomma gervaisi var. lucasi from Monitor (Varanus salvator), Peradiniya, V.1910---2730) Gamasid mites, from rat-snake (Zamenis mucosus) Kandy, VII.1910---No number) Aponomma laeve var. paradoxum from cobra, Peradeniya, Date ? 1910. No number). Amblyomma testudinarium, ♂ found at large, Haldamulla, ? 1910.

ORIGINAL DETERMINATION	CURRENT STATUS
N 1230a-c	N 1230 b,c
	RML 110086
(a) <u>Boophilus annulatus</u> ♂'s, ♀'s (b) <u>Boophilus annulatus</u> ♀ with eggs (c) <u>Boophilus annulatus</u> larvae	(a) MISSING (b) 1 ♀ <u>Boophilus annulatus</u> (c) 142 L <u>Boophilus annulatus</u>
Cow	Cow
Experiment Station, Georgia, USA	Experiment Station, Georgia, USA
(a) 11.VII.1910 (b) eggs laid about 25.X.1910 (c) larvae hatched about 10.IX.1910	(a) 11.VII.1910 (b) eggs laid about 25.X.1910 (c) larvae hatched about 10.IX.1910
Rec'd 20.XI.1910 from Mr. L.J. Herring, Animal Pathologist and Veterinarian.	Rec'd 20.XI.1910 from Mr. L.J. Herring, Animal Pathologist and Veterinarian.
(det. confirmed G.H.F.N.)	
N 1231	N 1231
	RML 110087
<u>Dermacentor rhinocerotis</u> 2♂, 1♀	1 ♂, 1 ♀ <u>Dermacentor rhinocerus</u>
Rhinoceros	<u>Diceros bicornis</u>
Mpele River, Marimba District, Nyasaland	Mpele River (13.07 S, 33.47 E), Malawi
2.VII.1910	2.VII.1910
Dr. E.H.A. Pask	Dr. E.H.A. Pask
(98 Ent. Res. Com.)	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1232	N	1232
		RML	110088
<u>Amblyomma tholloni</u> 2♂, 1♀, 1N		2 ♂, 1 ♀, 1 N <u>Amblyomma tholloni</u>	
Elephant		<u>Loxodonta africana</u>	
Marimba District, Nyasaland		Marimba District (11.30 S, 33.30 E), Malawi	
XII.1909		XII.1909	
Dr. H.S. Stannus		Dr. H.S. Stannus	
(120 Ent. Res. Com.)		Cited: Robinson (1926: 253).	
N	1233	N	1233
		RML	110089
<u>Aponomma gervaisi</u> ♂'s, ♀'s		4 ♂, 1 ♀ <u>Aponomma gervaisi</u>	
Dried skin of undetermined snake		Dried skin of undetermined snake	
Matale, Ceylon		Matale (07.28 N, 80.37 E), Sri Lanka	
I.1911		I.1911	
E.E. Green		E.E. Green	
N	1234	N	1234
		RML	110090
<u>Aponomma transversale</u> 2N COTYPES		2 N <u>Aponomma transversale</u>	
Patria ignota, Paris museum		Country unknown, Paris museum	
1904, G. Neumann det. 1906, Rec'd 1910		1904, G. Neumann det. 1906, Rec'd 1910	
		These are not type specimens although there is a blue COTYPE label in the vial, det. Neumann, 1906.	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1235	N	1235
		RML	110091
<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		3 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>	
Cape Colony, South Africa		Cape Colony, Republic of South Africa	
Rec'd 10.VII.1910		Rec'd 10.VII.1910	
Rec'd from Mr. C.P. Lounsbury		Rec'd from Mr. C.P. Lounsbury	
Raised from nymphs, died unfed "Lot 1" used for infecting cow with East Coast Fever.			
N	1236	N	1236
		RML	110092
<u>Ornithodoros savignyi</u>		1 ♂, 1 ♀, 2 N <u>Ornithodoros savignyi</u>	
Found in sand (crawling up a horse's leg)		Found in sand (crawling up a horse's leg)	
Near European Rest Camp at the village of Burgo, on the road from Geidam to Maidugari		Near European Rest Camp at the village of Burgo (12.39 N, 12.17 E), on the road from Geidam (12.53 N, 11.56 E), to Maidugari (10.54 N, 11.44 E), Nigeria	
V.1910		V.1910	
Sent by Dr. Pirie from North Borneo, Northern Nigeria, Africa		Sent by Dr. Pirie from North Borneo, Northern Nigeria, Africa	
(Ent. Res. Com. 125)			

ORIGINAL DETERMINATIONCURRENT STATUS

N 1237

N 1237 MISSING

Ixodes hexagonus ♂ on slideForêt de la Londe, Seine
Inférieure, France

Presented 17.II.1911

ex Simon collection

Presented by Prof. L.G. Neumann
out of his collection (lot 719,
the same as that containing the
♂ figured in Ticks Part II).
(N.B. no ♂ in London, Paris,
and Berlin Mus!).

Ticks received from the Indian Museum, Calcutta, July 6, 1910. Sent to Mr. Shipley and determined by Mr. Warburton. (Received unnumbered, but the letters A - O, were given by Mr. Warburton): -

- (A,B) Argas reflexus var. indicus, 2 ♂'s, from leaves of books in Museum, Hissar, Punjab, Calcutta.
- (C.) Argas persicus, 2 ♂, from leaves of books in Museum, Hissar, Punjab, Calcutta.
- (D.) Amblyomma sublaeve, off Manis aurita, Kakhylen Hills, Chinese Frontier, Upper Burma.
- (E.) Argas vespertilionis, larva, off Vespertilio muricata, Calcutta.
- (F.) Rhipicephalus sanguineus, off dog, Hissar, Punjab.
- (G.) Ixodes gigas, 1 ♂, off?, near Darjiling, E. Himalayas, 7-8,000 ft., India.
- (H.) Haemaphysalis sp. (mutilated), off Gallus sonneratii, Shevaroy Hills, S. India
- (I.) Boophilus sp.? larva. No data.
- (J.) Argas reflexus var. indicus, found in basin of water, Entomological room in Museum, Calcutta.
- (K.) Trombidium sp., nymphs, host?, Simla, W. Himalayas.
- (L.) Acari (Erythraeidae)
- (M.) Ornithodoros lahorensis, off sheep, Lahore, Punjab.
- (N.) Argas persicus off?, Punjab.
- (Na.) Rhipicephalus sanguineus
- (O.) Cephalothoras of Attid spider, Tonglu, Darjiling District, 10,000 ft.

Ticks received from the Indian Museum, Calcutta, 1.XII.1910.

- 915
17. Argas persicus, off domestic poultry, Cape Town. C. Fuller.
- 916
17. Argas persicus, larva, off?, Calcutta. C. Paiva.
- 917
17. Haemaphysalis bispinosa, off? Katihar, Purneah District, N. Bengal. C. Paiva
- 918 Hyalomma aegyptium ♀ } found in long
17. Rhip. haemaphysaloides } grass. Bangalore, S. India, 3,000 ft. Dr. N. Annandale
- 919
17. Argas persicus, off domestic poultry, Bombay, P. Phipson.
- 818
17. Boophilus australis, off? Darjiling, E. Himalayas.
819&819a Boophilus australis }
17.a) Rhip. sanguineus } off dog and cattle, Puri, Orissa Coast.
- 820
17. Hyalomma aegyptium, off?, Dumtaon, Bengal.
- 821
17. Rhipicephalus sanguineus, off dog, Monghyr, Bengal.
- 822
17. Hyalomma aegyptium ♀, off dog, Dumka, Bengal.
- 823
17. Hyalomma aegyptium, off bullock, Buxar, Bengal.
- 824
17. Hyalomma aegyptium, off?, Durbhunya, Bengal.
- 825 & 826
17 17. Rhipicephalus sanguineus, off dog, Bhagulpur, Bengal.
- 827
17. Hyalomma aegyptium, off dog, Gaya, Bengal.
- 828 Hyalomma aegyptium }
17.a) Rhip. sanguineus } off? North Bhagulpur, Bengal
- 829 Rhipicephalus sanguineus ♀ }
17.a) Boophilus australis } off? Gaya, Bengal
- 830
17. Hyalomma aegyptium, off? Gaya, Bengal.
- 831
17. Hyalomma aegyptium, off bullock, Gaya, Bengal.

832 Hyalomma aegyptium }
 17.a) Boophilus australis } off goat, Angul, Bengal.

833
 17. Rhipicephalus sanguineus, off cattle, Angul, Bengal.

834
 17. Hyalomma aegyptium, off? Bhagulpur, Bengal.

835 Hyalomma aegyptium }
 17.a) Rhipicephalus haemaphysaloides } off?, Larpur, Bengal.

836
 17. Hyalomma aegyptium, off sheep and goat, Larpur, Bengal.

837 Hyalomma aegyptium }
 17.a) Rhipicephalus haemaphysaloides } off?, Larpur, Bengal.
 b) Boophilus australis

838
 17. Rhipicephalus haemaphysaloides, ♀, off horse, Purulia, W. Bengal.

839
 17. Rhipicephalus sanguineus, ♀, off dog, Purulia, W. Bengal.

840
 17. Rhipicephalus sanguineus, ♀, off dog, Purulia, W. Bengal.

841
 17. Rhipicephalus haemaphysaloides, off goat, Sahibganj, Bengal.

842
 17. Boophilus australis, off bullock, Purulia, Bengal.

843
 17. Boophilus australis, off? Sahibganj, Bengal.

844
 17. Rhipicephalus sanguineus, off? Sahibganj, Bengal.

846
 17. Aponomma gervaisi var. lucasi, off Varanus salvator, Peradeniya, Ceylon.

847
 17. Haemaphysalis hystrix, ♀, off?, Kandy, Ceylon.

848
 17. Amblyomma testudinarium, ♀, off?, Peradeniya, Ceylon

849
 17. Haemaphysalis sp., nymph, off?, Peradeniya, Ceylon.

Report on a Collection of Ticks received from Dr. Brumpt, Paris, France, July 27, 1910. Their determinations, together with all the data obtainable, are as follows:

- 1a.) Haemaphysalis calcarata 1 ♂,
- 1b.) Hyalomma aegyptium o
- 1c.) Rhipicephalus oculatus ♀
- probably off Xerus rutilus, Biacobaba, Somaliland, IV.1901.
- 2a.) Haemaphysalis leachi ♂, ♀
- 2b.) Rhipicephalus simus ♂
- off Canis mesomelas, Harar, Abyssinia
3.) Hyalomma aegyptium, 1♂, off ? , Biacobaba, Somaliland, 10.IV.1909
4.) Amblyomma variegatum, 1 o, off man, Kankan, Guinea, 10.VI.1909 (Dr. Yoyeus coll.)
5.) Rhipicephalus sanguineus, ♀'s, probably on dog in my room at Djibouti, (Miss du Bourg), II.1901
6.) Boophilus australis, ♀'s, off cattle, Ivory Coast, (M. Fillassier coll.), II.1909
7.) Rhipicephalus sanguineus, ♀'s, o's, Macroscelides roseti, Oran, Algeria
8.) Boophilus australis, ♀'s, off cattle, Ivory Coast, II.1909 (M. Fillassier coll.)
(Nos. 9a, 9b & 9c. Not entered, owing to lack of data)
- 10a.) Amblyomma variegatum, ♂♀
- 10b.) Boophilus australis, ♀'s
- off cattle, Kankan, Guinea (Dr. Yoyeuse coll.)
- 11a.) Amblyomma variegatum ♀'s
- 11b.) Rhipicephalus evertsi, ♀
- off cattle, Harar, Abyssinia, V.1901
12.) Rhipicephalus sanguineus, ♀, off ? , Gueldezza, Somaliland
13.) Rhipicephalus sanguineus, ♂♀, off dog, Tunis. Sent by Dr. Blaizot
14. Rhipicephalus oculatus, ♂♀, off Strepsiceros imberbis, Herrer Valley, Abyssinia, VI.1901. (Mission du Bourg)
15.) Rhipicephalus simus, ♂, off native dog, Abba-Quelle, Congo
16.) o, off Arvicola arvalis, near Paris, (M. Bessin coll.)
17.) Rhipicephalus sanguineus, ♀, off dog, Djibouti, Somaliland, I.1906
18.) Ixodes ricinus, ♂ and o's, off hedgehog, Chantilly, France, winter of 1910
19.) Ixodes hexagonus, ♀, off hedgehog, near Paris, Date?, (M. Bessin coll.)
- 20a.) Amblyomma variegatum, ♂♀ (bad condition) off cattle, Djubouti, Somaliland,
- 20b.) Hyalomma aegyptium, ♀'s (bad condition) II.1901 (Mission du Bourg)
21.) Amblyomma variegatum, ♂♀, off cow, Grand Popo, Dahomey
22.) Hyalomma syriacum, ♂♀, off Testudo graeca. No locality, etc.

(Dr. Brumpt's collection continued)

- 23.) Dermacentor reticulatus, ♂, off deer, Chantilly, France, X.1909.
- 24a.) Hyalomma aegyptium ♂♀,
24b.) Rhipicephalus sanguineus, ♂♀ } off dog, Djibouti, Somaliland, I.1901. (Dr. E. Brumpt coll.)
- 25a.) Rhipicephalus sanguineus, ♂♀
25b.) Hyalomma aegyptium, ♂, } off dog, Kankan, Guinea (Dr. Yoyeux coll.)
- 26.) Rhipicephalus pulchellus, ♂♀, off zebra (Equus grevyi), Mt. Finke, Moulou, Gallaland
- 27.) Amblyomma marmoreum, ♂♀, off land tortoise, sp.?, Artaud, Somaliland
- 28.) Amblyomma gemma (Dönitz), ♂, off Phacocheirus aethiopicus africanus, Sagak, Somaliland, 11.VII.1901.
- 29.) Amblyomma marmoreum, ♂♀, off , Guedessa, Somaliland.
- 30.) Hyalomma aegyptium, ♂♀, probably off cattle, Oran, Algeria.
- 31.) Ixodes ricinus, 1♀, off roe-deer, Halles, Paris, X.1908.
- 32.) Ixodes ricinus, ♂♀, off deer, Chantilly, France, X.1909.
- 33.) Ixodes ricinus, ♂♀, off roe-deer, Halles, Paris, X.1908.
- 34.) Ixodes ricinus, ♂♀, off deer, Chantilly, France, XI.1909.
- 35.) Ixodes ricinus, off hedgehog, Chantilly, France, X.1909.

The following ticks were received from Dr. Brumpt, Paris on October 20th, 1910:

- A.) Haemaphysalis leachi, ♂'s, ♀*♂, off Hyaena crocuta, Harar, Abyssinia V.1901.
- A1.) Rhipicephalus simus, ♂'s, off Hyaena crocuta, Harar, Abyssinia, V.1901.
- B.) Ixodes ugandanus var. djaronensis, off Procavia brucei, Harar, Abyssinia, V.1901 (= N. 1222)
- C.) Haemaphysalis leachi (small variety), off Procavia brucei and Procavia abyssinica, Harar, Abyssinia, (= N. 1223)
- D.) Rhipicephalus sp., off Helogale parvula, Harar, Abyssinia (= N. 1225).
- E.) Haemaphysalis calcarata, probably off Xerus rutilus, Biacobaba, Somaliland, IV.1901.

Rhipicephalus sanguineus ♂'s, ♀'s off hounds, Simla, 16.XII.1907, Col. H.T. Pease.
The hounds suffering from piroplasmosis - also from Hissar, 1908 off wild boar.

Haemaphysalis bispinosa off lion, Gaur Forest Kathiawar, 11.III.1909.

Hyalomma aegyptium ♂'s, ♀'s off buffalo with Nos. 1220 & 1221.

All of these were brought to us for identification by Mr. Howlett,
2nd Imperial Entomologist to the Govt. of India X-XI.1910

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1238	N	1238
		RML	110093
	<u>Aponomma exornatum</u> 1♂, 1♀		1 ♂, 1 ♀ <u>Aponomma exornatum</u>
	Water lizard		Water lizard
	Kibango Bay, Victoria, Nyanza		Kibango Bay (00.07 N, 33.19 E), Uganda
	Presented 21.II.1911		Presented 21.II.1911
	Dr. McConnell		Dr. McConnell
	Presented by Prof. R. Newstead G.H.F.N. det.		
N	1239	N	1239
		RML	110094
	<u>Ixodes hexagonus</u> 1♀ 2/3 gorged		1 ♀ <u>Ixodes hexagonus</u>
	Polecat		<u>Mustela putorius</u>
	Somerset		Somerset (51.05 N, 03.00 W), England
	Sent alive 2.III.1911		Sent alive 2.III.1911
	Mr. W. Farren (Naturalist, Cambridge)		Mr. W. Farren (Naturalist, Cambridge) Cited: Nuttall (1916 : 328).
N	1240	N	1240
		RML	110095
	<u>Ixodes hexagonus</u> ♀'s, N's		2 ♀, 6 N <u>Ixodes hexagonus</u>
	Ferret		<u>Mustela furo</u>
	Histon, Cambs.		Histon (52.15 N, 00.06 E), Cambs. England
	13.III.1911		13.III.1911
	C. Warburton		C. Warburton Cited: Nuttall (1916: 327).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1241	N	1241
		RML	110096
	<u>Ixodes hexagonus</u> ♂! gorged Ls, 1 N		1 ♂, 1 N, 5 L <u>Ixodes hexagonus</u>
	Hedgehog's nest		Nest of <u>Erinaceus europaeus</u>
	Histon, Cambs.		Histon (52.15 N, 00.06 E), Cambs., England
	6.III.1911		6.III.1911
	C. Warburton		C. Warburton
			The vial label incorrectly gives the Nuttall number as N 1141a; cited: Nuttall (1916: 327).
N	1242	N	1242
		RML	110097
	<u>Ornithodoros lahorensis</u> 1 N		1 N <u>Ornithodoros lahorensis</u>
	Sheep		Sheep
	Lahore, Punjab		Lahore (31.35 N, 74.18 E), Pakistan
	(Civil Veterinary Dept., Punjab)		Civil Veterinary Dept., Punjab
	Indian Museum coll., Calcutta, ex $\frac{810}{17}$		
N	1243	N	1243
		RML	110098
	<u>Argas reflexus</u> var. <u>indicus</u> 1 ♂, 1 ♀, 1 N TYPES		1 ♂, 1 ♀, 1 N <u>Argas reflexus indicus</u>
	Found in basin of water		Found in basin of water
	Entomological room, Indian Museum, Calcutta, India		Entomological room, Indian Museum, Calcutta (22.32 N, 88.22 E), India
	13.IV.1910		13.IV.1910
	F. H. Gravely		F. H. Gravely
			Warburton (1910: 396), original description. Keirans & Brewster (1981: 154) discussed the type status of these specimens.

ORIGINAL DETERMINATION	CURRENT STATUS
N 1244 <u>Aponomma laeve</u> var. <u>paradoxum</u> Warb (in lit) 1 ♂, 2 ♀, 1 N TYPES Cobra Peradeniya, Ceylon 14.VI.1910 Sent by E.E. Green	N 1244 RML 110099 1 ♂, 2 ♀, 2 N <u>Aponomma pattoni</u> <u>Naja</u> sp. Peradeniya (07.15 N, 80.36 E), Sri Lanka 14.VI.1910 Sent by E.E. Green Wall (1921: 186) published the name <u>Aponomma laeve paradoxum</u> [nomen nudum] Based on information from Nuttall pertain- ing to these specimens.
N 1245 <u>Aponomma laeve</u> var. <u>paradoxum</u> Warb. (in lit) 2♂, 1N, 3L Cobra Kandy, Ceylon XI.1909 Sent by E.E. Green	N 1245 RML 110100 2 ♂, 1 N <u>Aponomma pattoni</u> <u>Naja</u> sp. Kandy (07.18 N, 80.38 E), Sri Lanka XI.1909 Sent by E.E. Green

The Indian Museum (Calcutta) also contains:-

998
17 Hyalomma aegyptium 1 ♀, from Mowai, Bara Banki, United Province of Agra and Oudh,
13.X.1910 M.M.Khan Determined by C. Warburton

999
17 Haemaphysalis bispinosa, 1 ♀, off buffalo, Kolassy Factory, Purneah District, N.
Bengal, XI.1910, L.R. Paiva. Determined by C. Warburton

Ticks received from the Indian Museum, Calcutta (per Dr. N. Annandale). 1.April.
1910, and determined by Mr. C. Warburton:-

1069
17 Rhipicephalus sanguineus nymph, off?, Katihar, Purneah District, N. Bengal.
C.A. Paiva.

1070
17 Amblyomma testudinarium, ♀, off?, Assam-Bhutan Frontier, Mangaldai District, NE

1071
17 Boophilus australis, ♀, off a cow, Bengal Veterinary College, Belgatchia, Calcutta

1072
17 Gamasid mites, sp.?, off?, near Darjiling, E. Himalayas, 7-8000 ft. R.B.
Horsfall.

1073
17 Boophilus australis ♀, off cow, Berhampur Court, Murshidabad Dist., Bengal,
Major Robertson-Milne.

1074
17 Rhipicephalus sanguineus, off dog, Berhampur Court, Murshidabad District, Bengal.
Major Robertson-Milne.

Two tubes belonging to the Sarawak Museum, as follows:

SM
16 Amblyomma testudinarium, ♀, off?, from Matang, IV.1904, R.S. Coll.

SM
17 Amblyomma decoratum, ♀, No particulars in tube.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1246

N 1246

RML 110101

Rhipicephalus pravus
COTYPES3 ♂, 2 ♀ Rhipicephalus pravus Syntypes

Oryx - antelope

Oryx beisaSouthern borders of the Massai-
Steppe, German East AfricaSouthern borders of the Massai Steppe,
Tanzania

Presented IV.1911

Presented IV.1911

Presented by Prof. W. Dönitz

Presented by Prof. W. Dönitz

Dönitz (1910a: 479), original description.
Yeoman & Walker (1967: 146).

N 1247

N 1247

RML 87012

Haemaphysalis japonica 2 ♂2 ♂ Haemaphysalis japonica
Lectotype and paralectotypeNemorrhaedus crispusCapricornis crispus

Hondo, Japan

Hondo (32.27 N, 130.12 E), Kyushu, Japan

Received IV.1911

Received IV.1911

Received from Mr. A. Hirst,
British Museum, London

The Duke of Bedford's collector

Warburton (1908: 512), original description;
Nuttall & Warburton (1915: 403). gave the collector cited above.
Lectotype designated: Keirans & Brewster (1981: 162).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1248	N	1248
		RML	110102
<u>Haemaphysalis japonica</u> var. <u>douglasi</u> 2 ♂		1 ♂ <u>Haemaphysalis japonica douglasi</u> Lectotype	
Roe-deer		<u>Capreolus capreolus</u>	
Yen-an-fu, Shensi, North China		Yen-An (36.38 N, 109.27 E), Shensi, Peoples Republic of China	
Rec'd IV.1911		19.V.1909	
Captain H.E.M. Douglas		Captain H.E.M. Douglas	
Rec'd from Mr. A.S. Hirst British Museum, London		Nuttall & Warburton (1915: 403), original description. They gave the locality as Ten-an-fu, Shensi and the date of collection as 19.V.1909. The BM(NH) general tick collection contains 7 ♂ specimens (paralectotypes) of <u>H. japonica douglasi</u> from N 1248. Lectotype designated: Keirans & Brewster (1981: 162).	
N	1249	N	1249
		RML	110103
<u>Rhipicephalus haemaphysaloides</u> ♀'s		4 ♀ <u>Rhipicephalus haemaphysaloides</u>	
Domestic cattle		Domestic cattle	
Panniar, Travancore, Western Ghats, S. India (alt 4,400 ft)		Panniar (26.06 N, 78.02 E), Kerala, India (alt. 1341 m)	
20-30.XII.1910		20-30.XII.1910	
E. R. Howlett		E. R. Howlett	
("colour, when alive, lightish brown, underside dirty-silver") C.W. det.			

ORIGINAL DETERMINATIONCURRENT STATUS

N 1250

Boophilus annulatus ♀'s

Domestic cattle

Panniar, Travancore, Western
Ghants, S. India (alt 4,400 ft)

20.XII.1910-27.I.1911

E. R. Howlett

G.H.F.N. det.

N 1250

RML 110104

17 ♀ Boophilus microplus

Domestic cattle

Panniar (26.06 N, 78.02 E),
Kerala, India

20.XII.1910-27.I.1911

E. R. Howlett

N 1251a-c

(a) Haemaphysalis proxima 1 ♀
(b) Haemaphysalis campanulata 3 ♂
(c) Amblyomma sp. L (gorged)

Sambhur deer

Satharangapara, Travancore,
S. India (alt. 3000 ft)

10.I.1911

E. R. Howlett

C.W. det

N 1251a-c

RML (a) 71501, (b) 87419, (c) 110105

(a) 1 ♀ Haemaphysalis shimoga
(b) 1 ♂ Haemaphysalis campanulata
(b) 1 ♂ Haemaphysalis sambar HOLOTYPE
(c) 1 L Amblyomma sp.Cervus unicolorProbably Chathurangapara (09.53 N,
77.13 E), Kerala, India (±3,625 ft;
±1105 m)

10.I.1911

E. R. Howlett

Hoogstraal (1971a: 173), original
description of H. sambar. Trapido
et al (1964b: 266) were unable to
locate the H. campanulata collection
at the BMNH.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1252 a, b	N	1252 a, b
		RML	110106
	(a) <u>Boophilus annulatus</u> ♂'s, ♀'s		(a) 1 ♂, 7 ♀, 2 N <u>Boophilus microplus</u>
	(b) <u>Hyalomma aegyptium</u> ♂, ♀, N		(b) MISSING
	Cattle		Cattle
	Travancore		Kerala State (09.00 N, 77.00 E), India
	5.III.1911		5.III.1911
	T. Karunai, sent by E.R. Howlett		T. Karunai, sent by E.R. Howlett
	G.H.F.N. det.		
N	1253a, b	N	1253a, b
		RML	72831
	(a) <u>Haemaphysalis bispinosa</u> ♂, ♀		(a) 1 ♂, 1 ♀ <u>Haemaphysalis bispinosa</u>
	(b) <u>Rhipicephalus sanguineus</u> ♀'s		(a) 1 ♂ <u>Haemaphysalis intermedia</u>
			(b) 5 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Travancore		Kerala State (09.00 N, 77.00 E), India
	7.III.1911		7.III.1911
	T. Karunai, sent by E.R. Howlett		T. Karunai, sent by E.R. Howlett
	C.W. det.		(a) Cited: Nuttall & Warburton (1915: 432).
N	Ticks received from Dr. H. H. Marshall, Rangoon, Burma, on 20.III.1911. 1254	N	1254
		RML	110107
	<u>Boophilus annulatus</u> ♀'s		10 ♀ <u>Boophilus microplus</u>
	Calf		Calf
	Rangoon		Rangoon (16.47 N, 96.10 E), Burma
	18.X.1910		18.X.1910
	Rec'd. from H.H. Marshall		Rec'd. from H.H. Marshall
	G.H.F.N. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1255	N	1255
		RML	110108
	<u>Rhipicephalus sanguineus</u> ♂, ♀		12 ♂, 17 ♀ <u>Rhipicephalus sanguineus</u>
	Native dog		Native dog
	Rangoon		Rangoon (16.47 N, 96.10 E), Burma
	1910		1910
	Rec'd from H.H. Marshall		Rec'd from H.H. Marshall
	C.W. det		Vial label gives the following collection data: Native..... Rangoon, India 1911
N	1256	N	1256
		RML	110109
	<u>Rhipicephalus sanguineus</u> 3 ♂, many gorged ♀'s		3 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Sheep		Sheep
	Hammam-Meskoutine, Algeria		Hammam Meskoutine (36.27 N, 07.16 E), Algeria
	V.1911		V.1911
	M. Paul Dechabert		M. Paul Dechabert
	(Rec'd 28.V.1911)		
N	1257	N	1257
		RML	110110
	<u>Rhipicephalus bursa</u> 5♀, partly gorged		5 ♀ <u>Rhipicephalus bursa</u>
	Sheep		Sheep
	Hammam-Meskoutine, Algeria		Hammam Meskoutine (36.27 N, 07.16 E), Algeria
	V.1911		V.1911
	M. Paul Dechabert		M. Paul Dechabert
	(very punctate) (Rec'd 28.V.1911)		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1258

Hyalomma aegyptium ♀'s gorged

Sheep

Hammam-Meskoutine, Algeria

V.1911

M. Paul Dechabert

(Rec'd 28.V.1911)

N 1258

RML 110111

14 ♀ Hyalomma marginatum

Sheep

Hammam Meskoutine (36.27 N, 07.16 E),
Algeria

V.1911

M. Paul Dechabert

N 1259

Argas reflexus 1 ♂

Rec'd 28.V.1911

Gift of Mr. E. G. Wheeler,
rec'd by him from Prof. L. G. Neumann
(Toulouse) 1901

Mounted on slide

Ticks presented by Dr. Henrique de Beaurepaire Aragão of Rio de Janeiro,
Brazil, May 1911; all det'd by Aragão.

N 1259 MISSING

N 1260

Argas persicus ♂'s, ♀'s, N's

Chicken coops

Rio de Janeiro

4.III.1911

Presented by Dr. H. de B. Arãgao

N 1260

RML 110112

10 ♂, 7 ♀, 12 N Argas miniatus

Chicken coops

Rio de Janeiro (22.54 S, 43.14 W),
Brazil

4.III.1911

Presented by Dr. H. de B. Arãgao

Ten of the nymphs are in a separate
vial.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1261	N	1261
		RML	110113
	<u>Amblyomma cooperi</u> ♂'s, ♀'s		3 ♂, 8 ♀ <u>Amblyomma cooperi</u>
	<u>Hydrochoerus capibara</u>		<u>Hydrochoerus hydrochaeris</u>
	Estado de S. Paulo, Brazil		Estado de São Paulo (22.00 S, 49.00 W), Brazil
	XII.1909		XII.1909
	Presented by Dr. H. deB. Aragão		Presented by Dr. H. deB. Aragão
	(Ref. Nos. 2040-50)		The above total includes 1 ♂, 1 ♀ pinned
N	1261x	N	1261x MISSING
	<u>Amblyomma humerale</u> ♂, ♀ (pinned)		These pinned specimens (2 ♂, 2 ♀) are now in the BMNH collection.
	Rio Xingu, State of Pará, Brazil		
	Presented by Dr. H. deB. Aragão		
	(Ref. Nos. 255-256)		
N	1262	N	1262 MISSING
	<u>Amblyomma braziliense</u> ♂, ♀ (pinned)		These pinned specimens (1 ♂, 1 ♀) are now in the BMNH collection.
	<u>Dicotyles torquatus</u>		
	Habira do Matto Dentro, Brazil		
	21.VII.1908		
	Presented by Dr. H. deB. Aragão		
	(Ref. Nos. 1359, 1363)		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1263	N	1263
		RML	110114
	<u>Amblyomma ovale</u> ♂, ♀ (pinned)		1 ♂, 1 ♀ <u>Amblyomma ovale</u> pinned
	<u>Canis familiaris</u>		<u>Canis familiaris</u>
	Pirauba, State of Minas, Brazil		Pirauba (21.17 S, 43.02 W), Estado de Minas Gerais, Brazil
	21.VII.1907		21.VII.1907
	Presented by Dr. H. deB. Aragão		Presented by Dr. H. deB. Aragão
	(Ref. Nos. 313, 426)		Cited: Robinson (1926: 29).
N	1264	N	1264 MISSING
	<u>Amblyomma concolor</u> ♂, ♀ (pinned)		These pinned specimens (1 ♂, 1 ♀) are now in the BMNH collection.
	<u>Dasyus</u> sp.		They are <u>Amblyomma pseudoconcolor</u> .
	Remanso, State of Bahia, Brazil		
	11.I.1908		
	Presented by Dr. H. deB. Aragão		
	(Nos. 867, 868)		
N	1265	N	1265 MISSING
	<u>Amblyomma incisum</u> ♂ (pinned)		This pinned ♂ is now in the BMNH collection.
	<u>Tapirus americanus</u>		
	São Luiz do Parahytinga, State of S. Paulo, Brazil.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1266	N	1266
		RML	110115
<u>Amblyomma cajennense</u> 1 ♂, 1 ♀ (pinned)		1 ♂, 1 ♀ <u>Amblyomma cajennense</u> (pinned)	
<u>Hydrochoerus capibara</u>		<u>Hydrochoerus hydrochaeris</u>	
State of Minas, Brazil		Estado de Minas Gerais (18.00 S, 44.00 W), Brazil	
21.VII.1908		21.VII.1908	
Presented by Dr. H. deB. Aragão		Presented by Dr. H. deB. Aragão	
(Nos. 1364, 1365)		Cited: Robinson (1926: 53).	
N	1267	N	1267 MISSING
<u>Amblyomma mantiquirens</u> ♂, ♀ (pinned)		These pinned specimens (1 ♂, 1 ♀) are now in the BMNH collection. They are <u>Amblyomma naponense</u> .	
<u>Dicotyles</u> sp.			
State of Rio, Brazil			
Presented by Dr. H. deB. Aragão			
(Nos. 1547, 1548)			
N	1268	N	1268
		RML	110116
<u>Amblyomma dissimile</u> ♂, ♀ (pinned)		1 ♂, 1 ♀ <u>Amblyomma dissimile</u> (pinned)	
<u>Iguana</u> sp.		<u>Iguana</u> sp.	
State of Para, Brazil		Estado do Pará (04.00 S, 53.00 W), Brazil	
IV.1908		IV.1908	
Presented by Dr. H. deB. Aragão		Presented by Dr. H. deB. Aragão	
(Nos. 1611, 1611)		Cited: Robinson (1926: 167).	

ORIGINAL DETERMINATION	CURRENT STATUS
N 1269 <u>Amblyomma nodosum</u> ♂ (pinned) <u>Myrmecophaga joubata</u> Lassance, State of Minas, Brazil 1908 Presented by Dr. H. deB. Aragão (No. 1648)	N 1269 RML 110117 1 ♂ <u>Amblyomma nodosum</u> (pinned) <u>Myrmecophaga tridactyla</u> Lassance (17.54 S, 44.34 W), Estado de Minas Gerais, Brazil 1908 Presented by Dr. H. deB. Aragão Cited: Robinson (1926: 199).
N 1270 <u>Amblyomma maculatum</u> ♀ (pinned) <u>Canis familiaris</u> Avare, State of S. Paulo, Brazil 28.IV.1908 Presented by Dr. H. deB. Aragão (No. 1249)	N 1270 MISSING This pinned ♀ is now in the BMNH collection. It is <u>Amblyomma</u> <u>tigrinum</u>.
N 1271 <u>Amblyomma ovale</u> ♂, ♀ (pinned) <u>Canis familiaris</u> Cantagallo, State of Rio de Janeiro 4.III.1908 Presented by Dr. H. deB. Aragão (Nos. 1115, 1116)	N 1271 RML 110118 1 ♂, 1 ♀ <u>Amblyomma striatum</u> <u>Canis familiaris</u> Cantagalo (21.58 S, 42.22 W), Estado do Rio de Janeiro, Brazil 4.III.1908 Presented by Dr. H. deB. Aragão These specimens are not pinned. Cited: Robinson (1926: 29).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1272	N	1272
		RML	110119
	<u>Rhipicephalus sanguineus</u> ♂, ♀ (pinned)	1 ♂, 1 ♀	<u>Rhipicephalus sanguineus</u> (pinned)
	<u>Canis familiaris</u>		<u>Canis familiaris</u>
	State of Bahia, Brazil		Estado da Bahia (12.00 S, 42.00 W), Brazil
	XII.1909		XII.1909
	Presented by Dr. H. deB. Aragão (Nos. 1098, 1099)		Presented by Dr. H. deB. Aragão
N	1273	N	1273 MISSING
	<u>Boophilus microplus</u> ♂, ♀ (pinned)		
	<u>Bos taurus</u>		
	Manguinhos, Brazil		
	Presented by Dr. H. deB. Aragão (Nos. 1316, 1317)		
N	1274	N	1274
		RML	110120
	<u>Haemaphysalis hystricis</u> 1 ♂ (pinned)	1 ♂	<u>Haemaphysalis hystricis</u> (pinned)
	Occurs on dog and tiger		Dog
	Sumatra		Sumatra, Indonesia
	Presented 30.V.1911		Presented 30.V.1911
	Presented by Prof. W. Dönitz		Presented by Prof. W. Dönitz
			Tentative ID
			Nuttall & Warburton (1915: 425) listed the host as dog.

ORIGINAL DETERMINATIONCURRENT STATUS

Ticks received from Dr. S. T. Darling, M.D., Chief of Board of Health Laboratory, (Isthmian Canal Commission) Ancon, Panama Canal Zone, (sent) 11.V.1911. + = collected by A. H. Jennings, 0 = collected by Dr. S. T. Darling.

N 1275

N 1275 MISSING

Argas persicus

Hen coop

Ancon, Panama

3.V.1910

A. H. Jennings

N 1276

N 1276

RML 110121

Ornithodoros talaje 2 N2 N Ornithodoros talaje

Native house

Native house

Chame, R. P.

Chame (08.35 N, 79.53 W) Panama

Sent 11.V.1911

Sent 11.V.1911

Dr. S. T. Darling

Dr. S. T. Darling
Samuel Taylor Darling (1872-1925)
from 1906-1915, Chief of laboratories
of the Isthmian Canal Commission,
Panama Canal Zone. Tropical medicine
specialist who worked on hookworm,
malaria and trypanosomiasis.

"Causes a vesicular-pustular
eruption on skin of native
children & may be host of
Spirochaeta movyi: relapsing
fever of Panama"

N 1277

N 1277 MISSING

Ornithodoros talaje 4 N

Rats

Panama, R. P.

Sent 11.V.1911

A. H. Jennings

Labelled larvae

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1278	N	1278 MISSING
	<u>Boophilus australis</u> ♂'s, ♀'s		
	Deer, (<u>Odocoileus</u> sp.)		
	Corozal, Canal Zone		
	14.VIII.1910		
	A.H. Jennings		
N	1279	N	1279
		RML	110122
	<u>Boophilus australis</u> ♀'s		2 ♀ <u>Boophilus australis</u>
	Cattle		Cattle
	Empire, Canal Zone		Empire Known Distance Range (09.04 N, 79.40 W), Panama
	15-19.V.1910		15-19.V.1910
	A.H. Jennings		A.H. Jennings
N	1280	N	1280
		RML	110123
	<u>Dermacentor nitens</u> ♂'s, ♀'s		3 ♂, 2 ♀ <u>Anocentor nitens</u>
	Domestic cat		Domestic cat
	Ancon, Canal Zone		Ancon (08.58 N, 79.33 W), Panama
	III.1911		III.1911
	A.H. Jennings		A.H. Jennings
	Labeled <u>R. sanguineus</u>		

ORIGINAL DETERMINATION

N 1281

Dermacentor nitens ♂, ♀, NDeer (Odocoileus sp.)

Corozal, Canal Zone

14.VIII.1910

A.H. Jennings

N 1282

Dermacentor nitens ♂'s, ♀'s

Horse

Ancon, Canal Zone

V.1910

A.H. Jennings

N 1283

Amblyomma dissimile 2♂, 1♀

Iguana

Ancon, Canal Zone

17.I.1911

A.H. Jennings

CURRENT STATUS

N 1281

RML 110124

2 ♂, 2 ♀, 1 N Anocentor nitensOdocoileus virginianus

Corozal (08.59 N, 79.35 W), Panama

14.VIII.1910

A.H. Jennings

N 1282

RML 110125

8 ♂, 16 ♀, 1 N Anocentor nitens

Horse

Ancon (08.58 N, 79.33 W), Panama

V.1910

A.H. Jennings

N 1283

RML 110126

2 ♂, 1 ♀ Amblyomma dissimile

Iguana

Ancon (08.58 N, 79.33 W), Panama

17.I.1911

A.H. Jennings

Cited: Robinson (1926: 167).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1284	N	1284 MISSING
	<u>Amblyomma cajennense</u> ♂'s, ♀'s		
	Horse		
	Las Cascadas, Canal Zone		
	5.IV.1910		
	A. H. Jennings		
N	1285	N	1285
		RML	110127
	<u>Amblyomma oblongoguttatum</u>		2 ♂, 6 ♀ <u>Amblyomma oblongoguttatum</u>
	Types of <u>A. darlingi</u> n. sp.		Lectotype and paralectotypes of
	Nutt., 1912 4 ♂'s, 8 ♀'s		<u>A. darlingi</u>
	Deer (<u>Odocoileus</u> sp.)		<u>Odocoileus virginianus</u>
	Corozal, Canal Zone		Corozal (08.59 N, 79.35 W), Panama
	14.VIII.1910		14.VIII.1910
	A. H. Jennings		A. H. Jennings
	(1 ♂ & 1 ♀ of this lot pinned)		The pinned specimens are in the BMNH collection
			Nuttall (1912: 50), original description of <u>A. darlingi</u> .
			Cited: Robinson (1925: 36). Lectotype designated: Keirans & Brewster (1981: 36).
N	1286	N	1286
		RML	110128
	<u>Amblyomma oblongoguttatum</u>		33 N, 20 L <u>Amblyomma oblongoguttatum</u>
	40 N, 26 L Types of <u>A. darlingi</u>		Paralectotypes of <u>A. darlingi</u>
	Deer (<u>Odocoileus</u> sp.)		<u>Odocoileus virginianus</u>
	Corozal, Canal Zone		Corozal (08.59 N, 79.35 W), Panama
	14.VIII.1910		14.VIII.1910
	A. H. Jennings		A. H. Jennings
			The nymphs and larvae are in separate vials. Tentative ID.
			Nuttall (1912: 50), original description of <u>A. darlingi</u>

ORIGINAL DETERMINATION	CURRENT STATUS
N 1287 <u>Amblyomma oblongoguttatum</u> 2N Types of <u>A. darlingi</u> <u>Catharista atratus</u> (Turkey buzzard, on nape-head) Panama IV.1911 Dr. S. T. Darling	N 1287 RML 110129 2 N <u>Amblyomma oblongoguttatum</u> Paralectotypes of <u>A. darlingi</u> <u>Coragyps atratus</u> Empire Known Distance Range (09.04 N, 79.40 W), Panama IV.1911 Dr. S. T. Darling Locality of Empire on vial label and in Nuttall (1912: 54). Tentative ID Cited: Robinson (1926: 36).
N 1288 <u>Argas reflexus</u> 2 larvae Raised in laboratory, École de Méd., Paris 1907 Dr. E. Brumpt Presented 7.VI.1911	N 1288 MISSING
N 1289 <u>Argas reflexus</u> 2 skins from moulted gorged larvae Raised in laboratory, École de Méd., Paris 1907 Dr. E. Brumpt Presented 7.VI.1911	N 1289 MISSING

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1290	N	1290
		RML	110130
	<u>Amblyomma cohaerens</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Amblyomma cohaerens</u>
	Found on earth where buffalo had been lying		Found on earth where buffalo had been lying
	Toro, Uganda		Probably Toro Game Preserve (01.05 N, 30.25 E), Uganda
	XII.1910		XII.1910
	Dr. R. van Someren		Dr. R. van Someren
	("159" Ent Ettee)		Cited: Robinson (1926: 110).
N	1291	N	1291
		RML	110131
	<u>Amblyomma cohaerens</u> 1♂, 2♀'s (unfed)		1 ♂, 2 ♀ <u>Amblyomma cohaerens</u>
	Bugoma Forest, Umgoro, Uganda		Bugoma Forest (01.15 N, 30.53 E), District of Bunyoro, Uganda
	VIII.-XI.1910		VIII.-XI.1910
	Dr. C.H. Marshall		Dr. C.H. Marshall
	Rec'd. 11.VI.1911 from Mr. Guy A.K. Marshall, Secretary to Ent. Res. Cttee (Tropical Africa) Memorandum: No. 1290 (♂♀) was to Gehimrate Dönitz for his opinion. He wrote from Berlin, 23.III.1911 that the ♂ agrees almost exactly with his two types; differs only in that its "Nebenstrahl" is more extensive where it joins the third "Seitenfleck" so that the light stripe which extends from the middle field and interposes itself is pointed thus: in our specimen (No. 1290) ♂ the light stripe is somewhat broad up to its end and penetrates deeper toward the "Randfurche": This is but a very slight difference, it may be individual or geographical (varietal); similiar slight differences noted in ♀. Failing more material regards it as <u>cohaerens</u> , possibly a geographical variety.		Although the remarks opposite refer to N 1290, I have retained them after N 1291 where they were entered by Nuttall.
			Cited: Robinson (1926: 110).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1292	N	1292
		RML	110132
	<u>Amblyomma sublaeve</u> ♂, ♀		1 ♂, 1 ♀ <u>Amblyomma javanense</u>
	<u>Manis</u> sp.		<u>Manis</u> sp.
	Kuala Lumpur, Federated Malay States		Kuala Lumpur (03.10 N, 101.42 E), Malaysia
	Ex A.E. Shipley's collection		Ex A.E. Shipley's collection
	L.E.R. det 1926		Cited: Robinson (1926: 247).
N	1293	N	1293
		RML	110133
	<u>Amblyomma sublaeve</u> 1 ♂ (pinned)		2 ♂ <u>Amblyomma javanense</u>
	<u>Manis</u> sp.		<u>Manis</u> sp.
	Kuala Lumpur, Federated Malay States		Kuala Lumpur (03.10 N, 101.42 E), Malaysia
	Ex E.A. Shipley's collection		Ex E.A. Shipley's collection
	L.E.R. det 1926		1 ♂ of this collection is pinned, the other ♂ lacking legs and capitulum is in alcohol.
			Cited: Robinson (1926: 247).
N	1294	N	1294
		RML	110134
	<u>Ixodes caledonicus</u> 1 N (fully gorged)		1 N <u>Ixodes caledonicus</u>
	Dead starling		<u>Sturnus vulgaris</u> (dead)
	Isle of May, Fife, Scotland		Isle of May (56.11 N, 02.34 W), Scotland
	V.1911		V.1911
	W. Evans		W. Evans
	(Found with 5 other gorged N's & 1 gorged ♀ which were returned to collector 14.VI.1911).		Nuttall (1911: 176) cited this collection as 1♀, 6N; Nuttall (1916: 325).

ORIGINAL DETERMINATION

N 1295

Ixodes caledonicus 1 ♂, 1 ♀
Male = Type!

Found in rubbish & filth
beneath pigeons' nests,
sexes in copula.

Dunipace, Stirlingshire, Scotland

25.V.1911

W. Evans

N 1296

Hyalomma syriacum 2 ♂, 1 ♀
Testudo graeca

Cambridge

1.X.1909

G. Merriman

N 1297

Rhipicephalus sanguineus 2 ♂'s
Dog

Cairo, Egypt

10.II.1906

Dr. H. Bitter

CURRENT STATUS

N 1295

RML 110135

1 ♂, 1 ♀ Ixodes caledonicus

Found in rubbish & filth beneath pigeons'
nests, sexes in copula.

Dunipace (56.10 N, 03.55 W), Stirlingshire,
Scotland

25.V.1911

William Evans

The male of this collection was described
and figured by Nuttall (1911: 177).
See also Nuttall catalogue number 1542.

N 1296

RML 110136

1 ♂, 2 ♀ Hyalomma aegyptium pinned
Testudo graeca

Cambridge (52.13 N, 00.08 E), England

1.X.1909

G. Merriman

N 1297

RML 110137

2 ♂ Rhipicephalus sanguineus pinned
Dog

Cairo (30.03 N, 31.15 E), Egypt

10.II.1906

Dr. H. Bitter

ORIGINAL DETERMINATIONCURRENT STATUS

N	1298	N	1298
	<u>Amblyomma hebraeum</u>	RML	110138
	From Cape Colony, S. Africa		7 ♂, 2 ♀ <u>Amblyomma hebraeum</u> pinned
	1905-1906		Cape Colony, Republic of South Africa
	Raised in Cambridge		1905-1906
N	1299	N	1299 MISSING
	<u>Ixodes canisuga</u> larvae		Cited: Arthur (1963: 91, 92) as <u>I. lividus</u>
	Sandmartin's nest		
	Banks of River Severn		
	Rec'd 5.IV.1911		
	Rec'd from Mr. R.F.L. Burton Longner Hall, Shrewsbury		
N	1300	N	1300
	<u>Ixodes angustus</u> 1 ♂, 2 ♀'s	RML	110139
	Squirrel		1 ♂, 2 ♀ <u>Ixodes angustus</u>
	Duncan's, British Columbia		Squirrel
	IX.1910		Duncan (48.47 N, 123.42 W), British Columbia, Canada
	S. Hadwen		IX.1910
			S. Hadwen

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1301	N	1301
		RML	110140
	<u>Ixodes angustus</u> ♀, N & nymphal skins		1 ♀, nymphal skins <u>Ixodes angustus</u>
	Duncan's British Columbia		Duncan (48.47 N, 123.42 W), British Columbia, Canada
	IX-XI.1910		IX-XI.1910
	Raised by S. Hadwen		Raised by S. Hadwen
N	1302	N	1302
		RML	110141
	<u>Ixodes canisuga</u> ♀'s, N's		5 ♀ <u>Ixodes lividus</u>
	Young sandmartins in 3 nests		<u>Riparia riparia</u> in 3 nests
	Cauldwell Hall Farm, Boyton, Suffolk		Cauldwell Hall Farm, Boyton (52.04 N, 01.28 E), England
	11.VII.1911		11.VII.1911
	G.H.F. Nuttall		G.H.F. Nuttall
	(also whole bird!)		Cited: Nuttall (1916: 326); Arthur (1963: 91); Thompson (1967: 106).
N	1303	N	1303
		RML	110142
	<u>Ixodes canisuga</u> ♂, ♀, N		1 ♂, 6 ♀, 230 L <u>Ixodes lividus</u>
	3 Sandmartins' nest		3 nests of <u>Riparia riparia</u>
	Boyton Hall Farm, Suffolk		Undoubtedly Cauldwell Hall Farm, Boyton (52.04 N, 01.28 E), England
	11.VII.1911		11.VII.1911
	G.H.F. Nuttall		G.H.F. Nuttall
	L's to Prof. Dr. Dahl, Berlin Museum VII.1914. L's to Prof. Dr. S. Schenkling, Deutsches Entomol. Museum VII.1914. L's to Prof. Dr. R. Gestro, Museo Civico di Storia Nat. Genova VII.1914. 1 ♂, 1 ♀, 1 N to Dr. E. Pavlovsky, Leningrad 9.X.1925).		Cited: Nuttall (1916: 326); Arthur (1963: 91,92); Thompson (1967: 106).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1304
Ixodes canisuga ♂'s, ♀'s
 Sandmartins' nest
 Banks of River Severn, Longner
 Hall, Shrewsbury
 29.VI.1911
 R.F.L. Burton
 [This nest had been flooded in the
 winter, it contained at least 100
 ticks, the nests contained eggs of
 birds so the ticks must have fed
 on adults. Some of this lot pre-
 served, the majority used for
 raising exp'ts.]
 [2 slides ♂'s teased spermatophore
 mounted in balsam.]
 1 ♂ to Prof. R. Matheson, Cornell
 27.V.1929

N 1304
 RML 110143
 14 ♂, 59 ♀, +400 L Ixodes lividus
 Nest of Riparia riparia
 Banks of River Severn (51.36 N, 02.38 W),
 Longner Hall, Shrewsbury, England
 29.VI.1911
 R.F.L. Burton
 One vial of I. lividus eggs in a separate
 jar labeled "Eggs".
 Slides missing.
 Cited: Nuttall (1916: 326).
 Cited twice by Arthur (1963) on p. 91 and
 a third time on p. 92; Thompson (1967:
 106).

ORIGINAL DETERMINATION

N 1305a, b

- (a) Hyalomma aegyptium 4 ♀ gorged
 (b) Rhipicephalus bursa ♀ gorged

Sheep

Haamam-Meskoutine, Algeria

Sent alive for raising expts
 11.VI.1911

Paul Dechabert

(Parents of Nos. 1556, 1557, 1558,
 & 1559 respectively)

(a) 1 ♂, 1 ♀ to Prof. Jules Bordet
 Bruxelles, Belgium 30.VI.1920.
 2 ♂, 2 ♀ to Prof. Sadeo Yoshida at
 Cambridge, 21.XII.1920.
 2 ♂, 2 ♀ to P. A. Buxton at
 Cambridge 10.II.1921.
 2 ♂, 2 ♀ to Prof. Dr. D. A. deYong
 at Cambridge, 8.IV.1921.
 2 ♂, 2 ♀ to Prof. G. Hedger-Wallace,
 U. of Wales Cardiff 1921.
 2 ♂, 2 ♀ to Dr. S. H. Daukes, Wellcome
 Bureau London 9.I.1924.
 All stages to Prof. R. A. Cooley,
 Montana V.1928.
 1 ♂, ♀'s to Prof. E. Malvoz, Liège
 30.V.1929.
 N's, L's to R. W. Mettam, Weybridge
 IV.1931.
 N's, L's to H. S. Purchase IV.1931.
 2 ♂, 2 ♀ to Prof. D'Arcy Thompson
 XI.1931.
 2 ♂, 2 ♀ to Prof. R. Matheson,
 Cornell 27.V.1929.
 1 ♂, 1 ♀ to Dr. S. Hadwen, British
 Columbia, Canada 10.X.1913.
 1 ♂, 1 ♀, N's, L's to Dr. Lajos Gozony,
 Univ. Budapest, Hungary 23.VI.1914.

CURRENT STATUS

N 1305a, b

RML 110144

- (a) 4 ♂, 22 ♀, 180 N, 90 L in alcohol
 plus 42 ♂, 178 ♀, cast N skins in vials
 of dry specimens, Hyalomma marginatum
 (b) 359 ♂, 355 ♀, 152 N, ± 500 L
 (unengorged), 179 L (engorged)
Rhipicephalus bursa

Sheep

Hammam Meskoutine (36.27 N, 07.16 E)
 Algeria

Sent alive for raising expts
 11.VI.1911

Paul Dechabert

The specimens listed above are in numerous
 vials. In addition there are the following
 specimens from 1305a glued on a card in
 the pinned specimen box - "Raised in
 Cambridge on ram. Gorged nymphs operated
 1.VI.1915 immediately after they dropped
 off. Parts amputated and cast nymphal
 skins mounted on slides correspondingly
 numbered. All show perfect regeneration of
 legs, parts of which were cut off in nymphs
 Ticks 11 (left 3 leg) 12 (4 1) 13 (2 & 3 1)
 14 (1 1) 15 (2 1) 16 (1 & 2 1) 17 (1234
 left side). G.H.F. Nuttall 1.VII.1915.

(a & b) cited: Nuttall (1915: 436, 438)

(a) Hoogstraal (1956a:515).

Most of the collections were raised on rams
 in Cambridge although some portions of the
 life-cycle studies were reared on hedgehogs
 and calves.

(b) also contains 2 vials of eggs in a
 separate jar marked Eggs.

(b) 1 N of this collection now in the RML
 collection.

See also Nuttall 1556-1559.

1 ♀, 6 N, 105 L given to Professor Cooley
 are now in the RML collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N

1305a (Cont.)

N's & L to Prof. Dr. Dahl, Berlin
Museum VII.1914.
N's & L to Prof. Dr. Schenkling,
Deutsches Entomol. Museum VII.1914.
N's & L to Prof. Dr. Gestro, Museu
Civico di Storia Nat Genova VII.1914.
1 ♂, 1 ♀ to Launcelot Harrison,
Australia 9.V.1919.
1 ♂, 1 ♀ to Prof. M. Jesus Maynar
Zaragoza Spain 10.V.1919.
1 ♂, 1 ♀ to Prof. Poulton Oxford
26.V.1919.
1 ♂, 1 ♀ to Prof. E. Hindle, Cambridge
24.IX.1919.
1 ♂, 1 ♀ to Maj. Lothian, Sch. Hygiene
Blackpool 25.IX.1919.
1 ♂, 1 ♀ to Dr. J. Gordon Thompson
Long. Sch. Trop. Med. 8.I.1920.
1 ♂, 1 ♀ to Dr. R. W. Hegner, Johns
Hopkins, Baltimore 8.III.1920.
1 ♂, 1 ♀ to Dr. R. J. Tillyard Nelson,
N.Z. VI.1920.

1305b

♂'s, ♀'s to Prof. Wheeler, Boston,
Mass. 20.II.1915.
♂'s, ♀'s to Launcelot Harrison,
Australia 9.V.1919.
♂'s, ♀'s to Prof. Jesus Maynar
Zaragoza, Spain 10.V.1919.
♂'s, ♀'s to Prof. Poulton, Oxford 26.V.1919.
♂'s, ♀'s to Prof. E. Hindle, Cambridge
24.IX.1919.
♂'s, ♀'s to Maj. Lothian, Sch. Hygiene
Blackpool 25.IX.1919.
1 ♂, 1 ♀ to Maj. J. E. M. Boyd
Cambridge 20.XII.1919.
1 ♂, 1 ♀ to Dr. R. W. Hegner
Johns Hopkins, Baltimore 8.III.1920.
1 ♂, 1 ♀ to Dr. R. J. Tillyard
Nelson N.Z. VI.1920.
1 ♂, 1 ♀ to Prof. Jules Bordet
Bruxelles Belgium 30.VI.1920.
2 ♂, 2 ♀ to Prof. Sadeo Yoshida
at Cambridge 21.XII.1920.
2 ♂, 2 ♀ to P. A. Buxton at Cambridge
10.II.1921.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1305b (Cont.)

2 ♂, 2 ♀ to Prof. Dr. D. A. de Yong
at Cambridge 8.IV.1921.

2 ♂, 2 ♀ to Dr. G. Hedger-Wallace
Univ. Wales Cardiff 1921.

2 ♂, 2 ♀ to Dr. S. H. Daukes
Wellcome Bureau London 9.I.1924.

♂'s, ♀'s to Dr. E. Pavlovsky
Leningrad 9.X.1925.

1 ♂, 2 ♀ to Prof. E. Malvoz
Liege 30.V.1929.

2 ♂, 2 ♀ to Prof. D'Arcy Thompson
XI.1931.

2 ♂, 2 ♀ to Prof. R. Matheson
Cornell 27.V.1929.

1305a & b

1 ♂, 1 ♀ to Dr. E. Roubaud, Inst.
Pasteur Paris 12.X.1922.

1 ♂, 1 ♀ to Prof. J. Hjort, Univ.
Christiania Norway 12.X.1922.

1 ♂, 1 ♀ to Dr. A. Watkins
Pitchford Army Vet. Sch.

Thornhill, Aldershot 12.X.1922.

1 ♂, 1 ♀ to L. P. W. Renouf
Univ. College Cork Ireland 12.X.1922.

1 ♂, 1 ♀ to W. A. Pool, Indian Civil
Veterinary Dept. 12.X.1922.

1 ♂, 1 ♀ to Dr. Wm. Parry Morgan
Publ. Hlth. Lab. Cardiff, Wales 12.X.1922.

1 ♂, 1 ♀ to J. E. M. Mellor
Malvern College, Malvern 16.X.1922.

1 ♂, 1 ♀ to Prof. A. Bettencourt
Inst. Camara Pestana Lisbon 7.XI.1922.

1 ♂, 1 ♀ to Prof. E. Brumpt École Médecine
Paris 12.X.1922.

1 ♂, 1 ♀ to I. C. Ross, Univ. of
Sydney, Australia.

2 ♂, 2 ♀ to Prof. J. Drbohlav
Prague 30.V.1929.

2 ♂, 2 ♀ to Dr. A. C. Reed
San Francisco 30.V.1929.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1306a-d

N 1306a-d

RML 110145

- (a) Boophilus microplus ♂'s
- (b) Boophilus microplus ♀'s
1/2 gorged and gorged
- (c) Boophilus microplus ♀'s unfed
to replete
- (d) Boophilus microplus N's

- (a) 46 ♂, 2 ♀ Boophilus microplus
- (b) 38 ♀ Boophilus microplus
- (c) 17 ♀ Boophilus microplus
- (d) 12 N Boophilus microplus

Bos taurusBos taurus

Manguinhos, Rio de Janeiro

Manguinhos (21.24 S, 41.00 W),
Estado do Rio de Janeiro, Brazil

22.VI.1911

22.VI.1911

Sent by H. Aragão on 23.VI.1911

Sent by H. Aragão on 23.VI.1911

He writes he considers the tick a
good species and not merely a
variety of B. annulatus

ORIGINAL DETERMINATIONCURRENT STATUS

N 1307

N 1307

RML 57221

Ixodes putus8 ♂, 63 ♀, 84 N, 71 L Ixodes uriae

In and about guillemot's nests
creeping about (unfed ♀'s) on rocks
and upon our persons.

In and about guillemot's nests
creeping about (unfed ♀'s) on rocks
and upon our persons.

Cliff ledges, Worms Head, Gower
Glamorganshire, S. Wales

Cliff ledges, Worms Head (51.34 N,
04.20 W), Gower, Glamorganshire, Wales

2.VII.1911

2.VII.1911

G.H.F. Nuttall

G.H.F. Nuttall

N.B. This lot is being used for
raising expt's - most of the ticks
being kept alive.

One vial of eggs is in a jar marked
"Eggs". The specimens sent to F. C.
Bishopp (Bishopp 3233) are now in the
RML collection. The BMNH general
collection also has 1 ♂, 1 ♀ from 1307
(acc no. 13.2.12.1-4)
Cited: Nuttall (1912: 60) (1916: 330);
Thompson (1957: 214).

1 ♂, 1 ♀, 1 N, 1 L to F.C. Bishopp.
1 ♀ to N.Y. National Museum 18.IV.1913.
1 N to Prof. Dr. Dahl, Berlin
Museum VII.1914.
1 N to Prof. Dr. Schenkling,
Deutsches, Entomol. Mus. VII.1914.
1 N to Prof. Dr. R. Gestro Museo
Civico di Storia Nat. Genova VII.1914.

N 1308

N 1308

RML 110146

Ixodes ricinus ♀'s8 ♀ Ixodes ricinus

Cattle with redwater

Cattle with redwater

Athlone, Ireland

Athlone (53.26 N, 07.57 W), Ireland

Rec'd 28.IV and 3.V.1911

Rec'd 28.IV and 3.V.1911

H. W. Percy

H. W. Percy

Ticks preserved after they had
ceased ovipositing (Raising expt's
& for infection of cattle; pickled
6.VII.1911 G.H.F.N.)

Cited: Nuttall (1916: 332).

Ticks received back from the Entomological Research Committee (Tropical Africa)
London S.W. 15 July 1911. (Report No. 18)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1309	N	1309
		RML	66881
	<u>Rhipicephalus capensis</u> ♂'s, ♀'s		1 ♂, 2 ♀ <u>Rhipicephalus compositus</u> 1 ♂, 2 ♀ <u>Rhipicephalus hurti</u>
	Cattle		Cattle
	Uhehe District, German East Africa		Utete Forest Reserve (08.01 S, 38.44 E), Tanzania
	3.XII.1910		3.XII.1910
	S. A. Neave		S. A. Neave
	1 ♂, 1 ♀ to Prof. R. A. Cooley, Montana V.1928		The specimens sent to Prof. Cooley, 1 ♂, 2 ♀ <u>Rhipicephalus hurti</u> are now in the RML collection
N	1310	N	1310 MISSING
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		
	Cattle		
	Utengub, German East Africa		
	23.XI.1910		
	S. A. Neave		
N	1311	N	1311 MISSING
	<u>Rhipicephalus neavei</u> 2 ♂, 1 ♀		
	Bush-pig (<u>Potamochoerus</u> <u>chaeropotamus</u>)		
	Niamidzi River, Luangwa Valley, N.E. Rhodesia		
	VIII.1910		
	S. A. Neave		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1312	N	1312 MISSING
	<u>Ornithodoros moubata</u> ♂, N		
	"In huts of Angoni workers on Thompson's Cotton Plantation"		
	Near Cherteka's Luangwa River, N.E. Rhodesia		
	10.IX.1910		
	S. A. Neave		
N	1313	N	1313 MISSING
	<u>Rhipicephalus neavei</u> 3 ♂, 3 ♀		
	Eland		
	Near mouth of Lasangazi River, Luangwa Valley, N.E. Rhodesia		
	1.IX.1910		
	S. A. Neave		
N	1314	N	1314
		RML	110147
	<u>Rhipicephalus appendiculatus</u> 3 ♂, 3 ♀		3 ♂, 3 ♀ <u>Rhipicephalus</u> sp.
	Roan antelope		<u>Hippotragus equinus</u>
	Upper Luangwa River, N.E. Rhodesia		Upper Luangwa River (vicinity of 10.30 S, 33.00 E), Zambia
	7.VIII.1910		7.VIII.1910
	S. A. Neave		S. A. Neave
			This is <u>Rhipicephalus</u> sp. II of Yeoman & Walter (1967).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1315

Amblyomma petersi

Off grasses

Upper Luangwa Valley, N.E. Rhodesia

6.VIII.1910

S. A. Neave

N 1315

RML 110148

1 ♀ Amblyomma rhinocerotis

Off grasses

Upper Luangwa Valley (11.55 S, 32.10 E),
Zambia

6.VIII.1910

S. A. Neave

Cited: Robinson (1926: 264).

N 1316

Aponomma exornatum 2 ♂, 1 N

Iguana

Offa, S. Nigeria

2.XI.1910

R. C. Hiscock

N 1316

RML 110149

2 ♂, 1 N Aponomma flavomaculatum

Iguana

Either Offa (07.58 N, 04.19 E), or
Offa (08.09 N, 04.43 E), Nigeria

2.XI.1910

R. C. Hiscock

The nymph is a teratological specimen
with 4 legs on the right side and
3 legs on the left.

N 1317

Aponomma exornatum 2 ♂, 1 ♀, 1 N

Iguana

Offa, S. Nigeria

29.IX.1910

R. C. Hiscock

N 1317

RML 110150

2 ♂, 1 ♀, 1 N Aponomma flavomaculatum

Iguana

Offa (07.58 N, 04.19 E), Nigeria

29.IX.1910

R. C. Hiscock

ORIGINAL DETERMINATIONCURRENT STATUS

N	1318, a	N	1318, a
	(1318) <u>Amblyomma tholloni</u> 2 ♂, 2 ♀ (a) <u>Rhipicephalus maculatus</u> 2 ♀	RML	110151 (1318) 2 ♂ <u>Amblyomma tholloni</u> (a) 2 ♀ <u>Rhipicephalus maculatus</u>
	Elephant		<u>Loxodonta africana</u>
	Chiromo, Nyasaland, B.E. Africa		Chiromo (16.33 S, 35.08 E), Malawi
	XII.1910		XII.1910
	H. S. Stannus		H. S. Stannus (1318) Cited: Robinson (1926: 253).
N	1319	N	1319 MISSING
	<u>Ornithodoros moubata</u> 3		
	Bua River, Marimba, B.E. Africa		
	1910		
	H. S. Stannus		
N	1320	N	1320
	<u>Dermacentor rhinocerotis</u> 2 ♂, 2 ♀	RML	110152 1 ♂, 2 ♀ <u>Dermacentor rhinocerinus</u>
	? Nyasaland		? Malawi
	1910		1910
	J. E. S. Old		J. E. S. Old
	No data in tube		
N	1321	N	1321 MISSING
	<u>Hyalomma aegyptium</u> 3 ♂, 3 ♀		
	Roan antelope		
	Mpalali River, Marimba, Nyasaland, B.E. Africa		
	1.I.1911		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1322	N	1322
		RML	110153
	<u>Rhipicephalus falcatus</u> 2 ♂, 2 ♀		2 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Roan antelope		<u>Hippotragus equinus</u>
	Mpalali River, Marimba, Nyasaland		Probably Mpala River, now known as Mipala River (15.55 S, 35.16 E), Malawi
	1.I.1911		1.I.1911
	J. E. S. 01d		J. E. S. 01d
N	1323	N	1323 MISSING
	<u>Ixodes pilosus</u> ♀		
	Roan antelope		
	Mpalali River, Marimba, Nyasaland		
	1.I.1911		
	J. E. S. 01d		
N	1324	N	1324
		RML	110154
	<u>Rhipicephalus coriaceus</u> 6 ♂, 2 ♀		5 ♂, 1 ♀ <u>Rhipicephalus supertritus</u>
	Roan antelope		<u>Hippotragus equinus</u>
	Mpalali River, Marimba, Nyasaland B.E. Africa		Probably Mpala River, now known as Mipala River, (15.55 S, 35. 16 E), Malawi
	I.1911		I.1911
	J. E. S. 01d		J. E. S. 01d

ORIGINAL DETERMINATIONCURRENT STATUS

N	1325	N	1325
		RML	110155
	<u>Amblyomma variegatum</u> gorged larvae		128 L <u>Amblyomma variegatum</u>
	Goat		Goat
	Blantyre, Nyasaland, B.E. Africa		Blantyre (15.47 S, 35.00 E), Blantyre District, Malawi
	18.V.1910		18.V.1910
	J. E. S. Old		J. E. S. Old
N	1326	N	1326
		RML	110156
	<u>Rhipicephalus pulchellus</u> ♂'s, ♀'s, N's & 2 larvae (gorged)		2 ♂, 2 ♀, 3 N <u>Rhipicephalus pulchellus</u>
	Loke's (sic.) Hartebeeste		Coke's Hartebeest (<u>Alcelaphus</u> <u>buselaphus cokii</u>)
	Thikar, Fort Hall Rd., Nairobi, Brit. E. Africa		Thikar, Fort Hall Road, Nairobi (01.17 S, 36.49 E), Kenya
	29.I.1911		29.I.1911
	S. A. Neave		S. A. Neave
N	1327	N	1327
		RML	110157
	<u>Haemaphysalis leachi</u> 4 ♂'s		3 ♂ <u>Haemaphysalis leachi</u>
	Off tall grass		Off tall grass
	Zomba, Nyasaland, B.E. Africa		Zomba (15.23 S, 35.20 E), Zomba District, Malawi
	7.II.1911		7.II.1911
	A.M.D. Turnbull		A.M.D. Turnbull
			Cited: Nuttall & Warburton (1915: 471).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1328	N	1328
		RML	110158
	<u>Rhipicephalus pulchellus</u> ♂'s		10 ♂ <u>Rhipicephalus pulchellus</u> Pinned specimens
	"Wilde beeste"		<u>Connochaetes taurinus</u>
	Simba, Uganda Railway, B.E. Africa		Simba (02.10 S, 37.36 E), Kenya
	8.IV.1911		8.IV.1911
	S. A. Neave		S. A. Neave
			The railway mentioned is the Mombasa-Victoria (Uganda) Railway
N	1329	N	1329
		RML	110159
	<u>Rhipicephalus pulchellus</u> ♀'s		7 ♀ <u>Rhipicephalus pulchellus</u>
	"Wilde beeste"		<u>Connochaetes taurinus</u>
	Simba, Uganda Railway, B.E. Africa		Simba (02.10 S, 37.36 E), Kenya
	8.IV.1911		8.IV.1911
	S. A. Neave		S. A. Neave
N	1330	N	1330
		RML	110160
	<u>Rhipicephalus pulchellus</u> 6 ♂, 6 ♀		5 ♂, 5 ♀ <u>Rhipicephalus pulchellus</u>
	Off grasses		Off grasses
	Simba, Uganda Railway, B.E. Africa		Simba (02.10 S, 37.36 E), Kenya
	9.IV.1911		9.IV.1911
	S. A. Neave		S. A. Neave
	1 ♂, 1 ♀ to J. deMeza Zomba, Nyasaland, 19.II.1916		The above total includes 3 ♀ specimens pinned

ORIGINAL DETERMINATIONCURRENT STATUS

N	1331	N	1331
		RML	110161
	<u>Rhipicephalus pulchellus</u> 4 ♂, 4 ♀		2 ♂, 2 ♀ <u>Rhipicephalus pulchellus</u>
	Off grasses		Off grasses
	Makindu, Uganda Railway, B.E. Africa		Makindu (02.17 S, 37.49 E), Kenya
	5-7.IV.1911		5-7.IV.1911
	S. A. Neave		S. A. Neave
N	1332	N	1332
		RML	110163
	<u>Dermacentor rhinocerotis</u> 2 ♀		2 ♀ <u>Dermacentor rhinocerus</u>
	Off grasses		Off grasses
	Makindu, Uganda Railway, B.E. Africa		Makindu (02.17 S, 37.49 E), Kenya
	5-7.IV.1911		5-7.IV.1911
	S. A. Neave		S. A. Neave
N	1333	N	1333
		RML	110164
	<u>Rhipicephalus pulchellus</u> ♂'s, ♀'s		4 ♂, 2 ♀ <u>Rhipicephalus pulchellus</u>
	Off grasses		Off grasses
	Simba, Uganda Railway, B.E. Africa		Simba (02.10 S, 37.36 E), Kenya
	8.IV.1911		8.IV.1911
	S. A. Neave		S. A. Neave

ORIGINAL DETERMINATIONCURRENT STATUS

N	1334	N	1334
		RML	110165
	<u>Rhipicephalus pulchellus</u> 5 ♂, 5 ♀		4 ♂, 4 ♀ <u>Rhipicephalus pulchellus</u>
	"Impala"		<u>Aepyceros melampus</u>
	Makindu, B.E. Africa		Makindu (02.17 S, 37.49 E), Kenya
	6.IV.1911		6.IV.1911
	S. A. Neave		S. A. Neave
	1 ♂, 1 ♀ to Dr. S. Hadwen, Brit. Columbia, Canada, 10.X.1913		Above total includes 3 ♀ specimens pinned
N	1335	N	1335
		RML	110166
	<u>Rhipicephalus pulchellus</u> ♂'s, ♀'s		4 ♂, 3 ♀ <u>Rhipicephalus pulchellus</u>
	"Cope's" (sic.) Hartebeeste		Coke's Hartebeest. (<u>Alcelaphus</u> <u>buselaphus cokii</u>)
	Makindu, B.E. Africa		Makindu (02.17 S, 37.49 E), Kenya
	5.IV.1911		5.IV.1911
	S. A. Neave		S. A. Neave
	1 ♂, 1 ♀ to Dr. J. G. Parham, Portuguese East Africa, 18.IV.1913. 1 ♂, 1 ♀ to N.Y. National Museum, 18.IV.1913		
N	1336	N	1336
		RML	110167
	<u>Rhipicephalus pulchellus</u> ♂'s, ♀'s		2 ♂, 3 ♀ <u>Rhipicephalus pulchellus</u>
	Off grasses		Off grasses
	Mtito Andei, Uganda Railway, B.E. Africa		Mtito Andei (02.41 S, 38.10 E), Kenya
	27.III.1911		27.III.1911
	S. A. Neave		S. A. Neave

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1337	N	1337
		RML	110168
	<u>Dermacentor rhinocerotis</u> ♂ ♀		1 ♂, 1 ♀ <u>Dermacentor rhinocerinus</u>
	Off grasses		Off grasses
	Mtito Andei, Uganda Railway B.E. Africa		Mtito Andei (02.41 S, 38.10 E), Kenya
	27.III.1911		27.III.1911
	S. A. Neave		S. A. Neave
N	1338	N	1338
		RML	110169
	<u>Amblyomma petersi</u> 1 ♀		1 ♀ <u>Amblyomma rhinocerotis</u>
	Off grasses		Off grasses
	Kibwezi, Uganda Railway, B.E. Africa		Kibwezi (02.25 S, 37.58 E), Kenya
	27.III.1911		2-4.IV.1911
	S. A. Neave		S. A. Neave
			Cited: Robinson (1926: 264) but without Nuttall number. Vial label date differs from date in catalogue.
N	1339	N	1339 MISSING
	<u>Ixodes</u> sp. 3 N		
	<u>Crosidura</u> sp. (skin No. 235)		
	E. of foot of Aberdare Mts. B.E. Africa		
	26.II.1911		
	S. A. Neave		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1340	N	1340	MISSING
	<u>Haemaphysalis</u> sp. 1 N			
	Mouse (skin No. 238)			
	W. foot of Aberdare Mts., B.E. Africa			
	1.III.1911			
	S. A. Neave			
N	1341	N	1341	MISSING
	<u>Ixodes</u> sp. 1 N			
	Mouse (skin No. 238)			
	W. foot of Aberdare Mts., B.E. Africa			
	1.III.1911			
	S. A. Neave			
N	1342	N	1342	
		RML	110170	
	<u>Dermacentor rhinocerotis</u> ♂'s, ♀'s		4 ♂, 3 ♀ <u>Dermacentor rhinocerinus</u>	
	Off grasses		Off grasses	
	Ngara, Nyasaland, B.E. Africa		Ngara (10.14 S, 34.07 E), Koronga District, Malawi	
	4.I.1911		4.I.1911	
	J. E. S. Old		J. E. S. Old	
	1 ♂, 1 ♀ to Dr. Lajos Gazony, Univ. Budapest, Hungary, 23.VI.1914			

ORIGINAL DETERMINATIONCURRENT STATUS

N	1343	N	1343
		RML	110171
	<u>Dermacentor rhinocerotis</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Dermacentor rhinocerus</u>
	Off grass (rhinoceros seen nearby)		Off grass (rhinoceros seen nearby)
	Mpalale, Nyasaland, B.E. Africa		Mpalale, Malawi (locality not verified)
	3.I.1911		3.I.1911
	J.E.S. Old		J. E. S. Old
			1 ♂, 1 ♀ of the above total mounted on a slide.
			The spelling of the locality on the vial label is Mpalali. A possible locality is Mpali Estate (13.24 S, 33.37 E).
N	1344	N	1344
		RML	110172
	<u>Amblyomma variegatum</u> 2♀		2 ♀ <u>Amblyomma variegatum</u>
	Buffalo		<u>Syncerus caffer</u>
	Tero Forest, B.E. Africa		Tero Forest (00.50 S, 31.40 E), District of Buganda, Uganda
	20.VIII.1909		20.VIII.1909
	C. C. Gowdey		C. C. Gowdey
N	1345	N	1345 MISSING
	<u>Amblyomma variegatum</u> 1 ♂'s		
	Elephant		
	Tero Forest, Uganda, B.E. Africa		
	20.VII.1909		
	C. C. Gowdey		

Ticks received from the Indian Museum, Calcutta, India (per Dr. N. Annandale), 4.VII.1911. Determined by Mr. C. Warburton, &, being common species, they have all been returned:-

- 1114 Rhip. haemaphysaloides off Cervulus muntjæ, Malwa Tal
17. (3,600 ft), Kumaun, W. Himalayas, 7.V.1911. S. Kemp
- 1115 Boo. australis, ♂'s & N's, from cattle farm, Navy Bay, Andamans,
17. India, 6.IV.1911. Q. Paiva
- 1116 Boo. australis, ♀'s from cattle farm, Navy Bay, Andamans, O. Paiva
17. India, 6.IV.1911.
- 1117 Haem. bispinosa. ♂, off ?, Caunter, Panvel, Bombay, India
17. 15.II.1911.
- 1118 R. sanguineus ♂
17. Haem. bispinosa ♂ off dog, Ross, Andamans, India, 23.III.1911. O. Paiva
- 1119 Rhip. sanguineus "probably from Pariah dog on wall of bungalow," Pusa,
17. Bengal, India, 31.III.-4.IV.1911. F.H.G.
- 1121 Rhip. sanguineus ♂ & ♀, off dog, Calcutta, India, 23.V.1911.
17.
- 1122 Argas persicus ? larvae, off common Indian crow (Corvus splendens),
Calcutta, India, 1911.

TM
1. Hyal. aegyptium ♀, off bullock, Nagercoil, India, XII.1910.

TM
1a. Hyal. aegyptium ♀, Ditto.

TM
2. Hyal. aegyptium ♀, " .

TM
3. Haem. bispinosa ♀, " .

TM
4. Haem. bispinosa ♀, " .

TM
5. Haem. bispinosa ♀ " .

TM
6. Haem. bispinosa ♀, " .

TM
7. Hyal. aegyptium ♂, " .

TM
9. Hyal. aegyptium ♂, " .

TM
10. Hyal. aegyptium ♂, " .

TM
11. Hyal. aegyptium ♂,

" .

TM
12. Hyal. aegyptium ♂,

" .

ORIGINAL DETERMINATIONCURRENT STATUS

N 1346

N 1346

RML 110173

Argas persicus larvae6 L Argas sp.Common Indian crow (Corvus splendens)Common Indian crow (Corvus splendens)

Calcutta, India

Calcutta (22.32 N, 88.22 E), India

1911

1911

(Ex Indian Mus. Coll. $\frac{1122}{17}$)

N 1347

N 1347

RML 110174

Ixodes hexagonus ♀ (gorged)1 ♀ Ixodes hexagonus

Rat

Rattus norvegicus

Killed in a hedge, Brampton, Norfolk

Brampton (52.46 N, 01.17 E), Norfolk, England

Hammond

Hammond

Presented by C. Warburton, VI.1911

Rattus norvegicus is undoubtedly the correct host for this tick. In England, the black rat, Rattus rattus, is confined to port areas.

Cited: Nuttall (1916: 327).

Ticks received from Mr. S. H. Gaiger of the Civil Veterinary Department, Punjab Veterinary College, Lahore, India, 23 July, 1911.

Hyal. aegyptium, ♂'s ♀'s, off camels, Lahore, Punjab, India. Date ?

Hyal. aegyptium, ♂'s ♀'s & N's, off horses, Kathgodown, India. Date ? 1910.

Hyal. aegyptium, N's, off horse, Lahore, India, 1908.

Hyal. aegyptium, ♂'s, & ♀'s, off camels, Lahore, India, 1908.

Hyal. aegyptium, larvae, off horse, India, 1908.

Hyal. aegyptium, N's, off horse, India, 1908.

Hyal. aegyptium, ♂ & ♀'s, off goat, Kathgodown, India, ? 1908.

Rhip. sanguineus, ♂'s ♀'s, off cattle, Lahcre, Punjab, India, date ?

Rhip. sanguineus, ♂'s, ♀'s, & N's, off dogs, Kathgodown, India. ? 1908.

Rhip. sanguineus, ♂ ♀'s, off dog, Balaghat, Central Provinces, India, 1908.

Rhip. sanguineus, larvae, 1907. No data.

Hyalomma aegyptium, ♂'s & ♀'s, off cow, Kathgodown, India, ? 1908.

Bos. australis 2 ♀'s Ditto. (from same tube).

Bos. australis N's, off ? Muktesar, India, date ?.

Argas persicus, 1 gorged larva. No data in tube.

Argas persicus, eggs, 1908. No data. (India).

Bos. australis ♂'s, off hill bull, Muktesar, Naini Tal District, India, 1907.

Rhipicephalus sp. ? larvae. No data.

Rhipicephalus sp. ? eggs. Ditto.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1348	N	1348
		RML	110175
	<u>Boophilus australis</u> ♂'s, ♀'s		5 ♂, 7 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Muktesar, Naini Tal District, India		Mukteswar (29.29 N, 79.39 E), India
	1908		1908
	S. H. Gaiger		S. H. Gaiger
N	1349	N	1349
		RML	110176
	<u>Argas persicus</u>		1 ♂, 11 N <u>Argas persicus</u>
	The Zoo, Lahore, India		The Zoo, Lahore (31.35 N, 74.18 E), Pakistan
	1908		1908
	S. H. Gaiger		S. H. Gaiger
N	1350	N	1350
		RML	110177
	<u>Amblyomma hebraeum</u> adults & unfed larvae		116 L <u>Amblyomma hebraeum</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	Rec'd IV.1905 and again III.1906		Rec'd IV.1905 & again III.1906
	Rec'd from Mr. C. P. Lounsbury		Rec'd. from Mr. C. P. Lounsbury
	[9 slides ♂'s, ♀'s, N's mounted in balsam]		Slides missing. The general tick collection of the BMNH contains six larvae from N 1350. Cited: Robinson (1926: 107).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1351	N	1351
		RML	110178
	<u>Amblyomma hebraeum</u> gorged larvae		7 L <u>Amblyomma hebraeum</u>
	Cape Colony, South Africa		Cape Colony, Republic of South Africa
	Rec'd IV.1905 & again III.1906		Rec'd IV.1905 & again III.1906
	Rec'd from Mr. C. P. Lounsbury		Rec'd from Mr. C. P. Lounsbury
	2 slides & 1 of ♀		Slides missing. The general tick collection of the BMNH contains two larvae from N 1351.
N	1352	N	1352
		RML	110179
	<u>Amblyomma hebraeum</u> gorged nymphs		1 N <u>Amblyomma hebraeum</u>
	Cape Colony, Africa		Cape Colony, Republic of South Africa
	Rec'd IV.1905 & III.1906		Rec'd IV.1905 & III.1906
	Rec'd from Mr. C. P. Lounsbury		Rec'd from Mr. C. P. Lounsbury
			The general tick collection of the BMNH contains one nymph from N 1352
N	1353	N	1353
		RML	110180
	<u>Amblyomma hebraeum</u> unfed nymphs		16 N <u>Amblyomma hebraeum</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	Rec'd 23.XII.1907		Rec'd 23.XII.1907
	Rec'd from Mr. C. P. Lounsbury		Rec'd from Mr. C. P. Lounsbury
			The general tick collection of the BMNH contains three nymphs from N 1353

ORIGINAL DETERMINATIONCURRENT STATUS

N 1354
Amblyomma hebraeum 1 ♂, 3 ♀
 East London, S. Africa
 Rec'd 3.IV.1905
 Rec'd from Dr. Williamson
 Rec'd dead

N 1355
Amblyomma hebraeum 4 ♀'s
 East London, S. Africa
 Rec'd 3.IV.1905
 Rec'd from Dr. Williamson
 Rec'd dead

N 1356
Amblyomma hebraeum ♂'s
 East London, S. Africa
 Rec'd 3.IV.1905
 Rec'd from Dr. Williamson
 Rec'd dead

N 1354 MISSING

N 1355
 RML 110181
 2 ♀ Amblyomma hebraeum
 East London (33.02 S, 27.55 E),
 Republic of South Africa
 Rec'd 3.IV.1905
 Rec'd from Dr. Williamson
 Cited: Robinson (1926: 107).

N 1356
 RML 110182
 18 ♂ Amblyomma hebraeum
 East London (33.02 S, 27.55 E),
 Republic of South Africa
 Rec'd 3.IV.1905
 Rec'd from Dr. Williamson
 Cited: Robinson (1926: 107).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1357	N	1357
	<u>Amblyomma hebraeum</u> ♂	RML	113745
	East London, S. Africa		2 ♂ <u>Amblyomma hebraeum</u>
	Rec'd 1.V.1905		East London (30.02 S, 27.55 E), Republic of South Africa
	Rec'd from Dr. Williamson		Rec'd 1.V.1905
N	1358	N	1358
	<u>Ixodes tenuirostris</u> 2 ♀'s	RML	110183
	Rat (No. 6536)		2 ♀ <u>Ixodes trianguliceps</u>
	Bank, Prike's farm, Dedham, Essex		<u>Rattus norvegicus</u>
	16.X.1911		Prike's farm, Dedham (51.57 N, 00.59 E), Essex, England
	G. Merriman		16.X.1911
	G.H.F. Nuttall det.		G. Merriman
			See remark under N 1347. Cited: Nuttall (1916: 333); Thompson (1968: 148); Thompson & Knowles (1968: 193).
N	1359	N	1359
	<u>Ixodes tenuirostris</u> 1 ♀	RML	110184
	Rat (No. 3591)		1 ♀ <u>Ixodes trianguliceps</u>
	Hedgebank, Ashford farm, Rendham, Suffolk		<u>Rattus norvegicus</u>
	28.IX.1911		Ashford farm, Rendham (52.14 N, 01.26 E), Suffolk, England
	C. Strickland		28.IX.1911
	G.H.F.N. det.		C. Strickland
			See remarks under N 1347. The 3 ♀ <u>I. trianguliceps</u> (N 1358, 1359) are undoubtedly the specimens referred to by Strickland & Merriman (1913: 16). Both collections cited by Nuttall (1916: 333); Thompson (1968: 148).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1360	N	1360
		RML	110185
	<u>Ixodes hexagonus</u> 1 ♀		1 ♂ <u>Ixodes hexagonus</u>
	Dog		Dog
	Whitehouse farm, Parham, Suffolk		Whitehouse farm, Parham (52.12 N, 01.22 E), Suffolk, England
	3.X.1911		3.X.1911
	C. Strickland		C. Strickland
	G.H.F.N. det.		Cited: Nuttall (1916: 327).
N	1361	N	1361
		RML	110186
	<u>Ixodes angustus</u> 2 ♂, & 2 nymphal cases		2 ♂, N skins <u>Ixodes angustus</u>
	Mt. Lehman, British Columbia		Mt. Lehman (49.07 N, 122.23 W), British Columbia, Canada
	Rec'd 17.X.1911		Rec'd 17.X.1911
	Rec'd from S. Hadwen		Rec'd from S. Hadwen
	Gorged 28.VI.1911; hatched 24.VII.1911		
N	1362	N	1362
		RML	110187
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		4 ♂, 4 ♀ <u>Rhipicephalus sanguineus</u>
	(Host not recorded but probably dogs)		(Host not recorded but probably dogs)
	Baghdad, Turkey		Baghdad (33.21 N, 44.25 E), Iraq
	? 1910		? 1910
	Dr. C. M. Wenyon		Dr. C. M. Wenyon

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	None	N	None MISSING
<u>Ixodes canisuga</u> 3 ♀'s			
Young fox-hound			
Gibside, Co. Durham			
1911			
R. S. Bagnall			
Returned specimen			
N	1363	N	1363
		RML	110188
<u>Ixodes caledonicus</u> 1 ♀		1 ♀ <u>Ixodes caledonicus</u>	
Starling's head		<u>Sturnus vulgaris</u>	
Sunderland, England		Sunderland, (54.54 N, 01.22 W) England	
4.VI.1908		4.VI.1908	
Mr. Duthrie		Mr. Duthrie	
Rec'd from Mr. R. S. Bagnall Penshaw Lodge, Penshaw, Co. Durham (G.H.F. Nuttall det.)		Cited:Nuttall (1916: 325). Richard Siddoway Bagnall (1889-1962). A trained chemist but published ex- tensively on the insect orders Collembola and Thysanoptera	
N	None	N	None MISSING
<u>Hyalomma syriacum</u> 1 ♂			
Tortoise			
Penshaw Lodge, Penshaw, Co. Durham			
X.1911			
R. S. Bagnall			
(G.H.F.N. det.) Returned 25.X.1911			

ORIGINAL DETERMINATIONCURRENT STATUS

N 1364

Haemaphysalis hoodi 1 N, 1 L

Centropus burchelli (bird, on neck)

Manhica, Lourenço Marques, Portuguese East Africa

3.VI.1908

C. W. Howard

(Haemaphysalis africana C. W. Howard VIII.1909; ex bottle of his types, containing also ♂'s, ♀, N, L)

N 1364

RML 110189

1 N, 1 L Haemaphysalis hoodi
TYPES of H. africana

Centropus superciliosus burchellii

Concelho de Manhica (25.15 S, 32.45 E), Lourenço Marques, now Maputo, Mozambique

3.VI.1908

C. W. Howard

Howard (1909) p. 219 original description of Haemaphysalis africana

Cited and figured: Nuttall & Warburton (1915: 485, 486)

Charles Walter Howard (1882-1928)
Assistant Entomologist in Transvaal 1905, appointed Entomologist 1906. Returned to the USA in 1911, Entomologist Univ. Minnesota 1912-1917. Professor of Biology Canton China Christian College. Died of injuries when struck by an interurban train.

Ticks received from the Indian Museum, Calcutta India (per Dr. N. Annandale), September, 1911. Determined by Mr. C. Warburton, as follows:-

<u>Apon. gervaisi</u> var. <u>lucasi</u> ,	off <u>Varanus salvator</u> (on piece of skin),		
	Byik Hwaaw Bay, Tavoy, Burma, India		1129
	Capt. S. Sewell.	Indian Mus.	7.
" " "	off <u>Naia tripudians</u> , Byikhwaaw Bay,		1126
	Tavoy, Burma, India, Capt. S. Sewell.		17
		Indian Mus.	
" " "	off <u>Zamenis mucosus</u> , VII.1911, Almorah, W. Him-		
	alayas (5,400 ft.), India. Major F. Wall		
			1125
		Indian Mus.	17
<u>Apon. laeve</u> var. <u>paradoxum</u> ,	off <u>Cobra</u> (<u>Naia tripudians</u>), Raniganj		
	Lower Bengal, India, V.1910. A. Martin		1127
		Indian Mus.	17
<u>Orn. lahorensis</u>)	off ? , from Quetta, Baluchistan, India,		
<u>Argas persicus</u>)	VII.1910. Capt. Davys, I.M.S.	Ind. Mus.	1128
			7
<u>Argas persicus</u> (?)	larvae, off <u>Corvus splendens</u> , Museum premises		
	Calcutta, India, 30.V.1911.	Indian Mus.	1122
			17.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1365	N	1365
		RML	110190
	<u>Aponomma gervaisi</u> var. <u>lucasi</u> ♂'s		3 ♂ <u>Aponomma varanensis</u>
	<u>Zamenis mucosus</u>		<u>Ptyas mucosus</u>
	Almorah, W. Himalayas (5,400 ft.), India		Almora (29.37 N, 79.40 E), (1646 m), India
	VII.1911		VII.1911
	Maj. F. Wall		Maj. F. Wall
	[Ex Indian Museum $\frac{1125}{17}$]		Cited: Sharif (1928: 338).
N	1366	N	1366
		RML	110191
	<u>Aponomma laeve</u> var. <u>paradoxum</u> ♂, ♀, N's		4 N <u>Aponomma pattoni</u>
	Cobra (<u>Naia tripudians</u>)		<u>Naja naja</u>
	Raniganj, Lower Bengal, India		Raniganj (23.37 N, 87.08 E), India
	V.1910		V.1910
	A. Martin		A. Martin
	[Ex Indian Museum $\frac{1227}{17}$]		Cited: Sharif (1928: 339).
N	1367	N	1367 MISSING
	<u>Argas persicus</u>		
	(Host not stated)		
	Quetta, Baluchistan, India		
	VIII.1911		
	Captain Davys, I.M.S.		
	[Ex Indian Museum $\frac{1128}{7}$]		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1368	N	1368
	<u>Ornithodoros lahorensis</u>	RML	110192
	? (found with 1367)		4 ♀ <u>Ornithodoros lahorensis</u>
	Quetta, Baluchistan, India		? (found with 1367)
	VIII.1911		Quetta (30.12 N, 67.00 E), Pakistan
	Captain Davys I.M.S.		VIII.1911
	[Ex Indian Museum $\frac{1128}{7}$]		Captain Davys I.M.S.
N	1369	N	1369
	<u>Amblyomma testudinarium</u> ♂	RML	22236
	<u>Sus jubatus</u>		1 ♂ <u>Amblyomma testudinarium</u>
	Perak, Malay Peninsula		<u>Sus scrofa jubatus</u>
	Rec'd 19.X.1911		State of Perak (05.00 N, 101.00 E), Malaysia
	Rec'd from Col. A. Alcock, F.R.S. London Sch. Trop. Med.		Rec'd 19.X.1911
	(Det. by Nuttall & Robinson XI.1911) [Returned 1 ♂ & 1 ♀ to Alcock 3.XI.1911]		Rec'd from Col. A. Alcock, F.R.S. London Sch. Trop. Med.
			P. A. Buxton (London School of Hygiene and Tropical Medicine) donated 3 ♂, 3 ♀ from this collection to R. A. Cooley of RML. Cited: Robinson (1926; 257).
N	1370	N	1370
	<u>Rhipicephalus</u> sp. 1 N	RML	110193
	<u>Tarabagan</u>		1 N <u>Dermacentor</u> sp.
	Sharbada, Mongolia		"Tarabagan," <u>Marmota bobak</u>
	15.VIII.1911		Sharbada, Mongolia (locality not verified)
	Dr. G. L. Tuck		15.VIII.1911
	(Rec'd. mounted in balsam)		Dr. G. L. Tuck

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1371	N	1371
		RML	110194
	<u>Ixodes canisuga</u> ♀'s		6 ♀ <u>Ixodes arboricola</u>
	Starlings nest		<u>Sturnus vulgaris</u> nest
	Framlingham, near Norwich, Norfolk		Framlingham (52.13 N, 01.20 E), Norfolk, England
	VI.1911		VI.1911
	Piggott		Piggott Cited: Nuttall (1916: 326).
	Four tubes of ticks purchased from Mr. T. V. Sherrin, (Taxidermist), Richmond, Surrey, 13.V.1911. Determined as follows:-		
N	1372	N	1372
		RML	115867
	<u>Haemaphysalis neumanni</u> ♀		1 ♀ <u>Haemaphysalis goral</u> Holotype
	<u>Nemorhaedus cinereus</u>		<u>Naemorhedus goral</u> subsp.
	Jehang, China		Probably Jo-heng-chen (28.24 N, 121.31 E), Peoples Republic of China
			Cited: Nuttall & Warburton (1915: 432) as <u>H. bispinosa</u> . Hoogstraal (1970: 1235), original description of <u>H.</u> <u>goral</u> .
N	1373	N	1373
		RML	86211
	<u>Haemaphysalis neumanni</u> ♂'s, ♀'s		4 ♂, 3 ♀ <u>Haemaphysalis mageshimaensis</u>
	<u>Cervulus</u> sp.		<u>Muntiacus reevesi</u>
	Feng Tuang Shan, An Wei, China		Feng Tuang Shan, Anhwei Province (32.00 N, 117.00 E), Peoples Republic of China
			Cited: Hoogstraal & Santana (1974: 866).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1374

N 1374

RML 22299

Haemaphysalis japonica ♂'s, ♀'s25 ♂ Haemaphysalis japonica

Roebuck

Capreolus capreolus10 miles south of Tan-Chow, Kansu,
China16 km. south of Tan-Chow, Kansu Province
(38.00 N, 102.00 E), Peoples Republic
of China

Cited: Nuttall & Warburton (1915: 403).

N 1375

N 1375

RML 47069

Dermacentor niveus 1 ♂, 1 ♀1 ♂, 1 ♀ Dermacentor sp.

Musk deer

Moschus moschiferusKagan Valley (Alt. 10,500 ft.)
N.W. Frontier, IndiaValley nr. Kayan (34.47 N, 73.32E),
Peshawar, Pakistan (3045 M)These specimens are not D. niveus,
D. everestianus, or D. raskemensis

Ticks received from Dr. J. H. Ashworth, Zoological Dep't., The University, Edinburgh, N. B., 4.XI.1911. Determined by Mr. Warburton, as follows:

Amb1. variegatum N's) off bush-buck Mohytea Plain.
Haem. parmata 1 ♀) Toro, Uganda, B.E. Africa, ? Date. Dr. R. van Someran coll.
Apon. gervaisi) & off cobra (Naia Haie) Sokoto, N. Nigeria. ? Date.
 Dr. J. M. Dalziel coll.

ORIGINAL DETERMINATION

CURRENT STATUS

N 1376

N 1376

RML 110195

Ornithodoros coriaceus (2)

1 ♀, 1 N Ornithodoros coriaceus

Horse blanket

Horse blanket

Coast Range, California, USA

Coast Range, California, USA

Sent 31.X.1911

Sent 31.X.1911

Sent by Dr. Rupert Blue

Sent by Dr. Rupert Blue

Dr. Blue's letter, dated 31.X.1911, states:

"These ticks are found in the Coast Ranges of California. The bite is very much feared by cattlemen in the Santa Clara and Monterey Hills, and it is stated that severe reactions follow at times, such as fever, prostration, sweating and headaches. There is the possibility of its conveying a Spirochaete of some kind."

Dr. Blue encloses a newspaper cutting which states that it occurs in the Mount Hamilton Range, that it attacks man, beasts and birds, and is nocturnal. The hill cattlemen call it the "bird bug."

G.H.F. Nuttall det.

Ticks received from Dr. Seymour Hadwen c/o Experimental Farm, Agassiz,
B. C., Canada III & XI.1911:- G.H.F. Nuttall det.

N	1377	N	1377
		RML	110196
	<u>Ixodes kingi</u> 1 ♀		1 ♀ <u>Ixodes kingi</u>
	Dog		Dog
	Milk River, Alberta, Canada		Milk River (49.08 N, 112.05 W), Alberta, Canada
	VII.1911		VII.1911
	A. Watson		A. Watson
	G.H.F.N. det. 25.VII.1915		Cited: Nuttall (1916: 336).
N	1378	N	1378
		RML	110197
	<u>Ixodes hexagonus</u> ♀		1 ♀ <u>Ixodes rugosus</u>
	Weasel		<u>Mustela</u> sp.
	Mt. Lehman Brit. Columbia		Mt. Lehman (49.43 N, 122.23 W), British Columbia, Canada
	27.I.1911		27.I.1911
	S. Hadwen		S. Hadwen
			Cited: Nuttall (1916: 328).
N	None	N	None MISSING
	<u>Ixodes ricinus</u> ♀		
	Dog		
	Duncan British Columbia		
	25.XII.1910		
	D. Ashby		
	Returned 15.XI.1911		

ORIGINAL DETERMINATIONCURRENT STATUS

N	None	N	None MISSING
	<u>Ixodes ricinus</u> N & L		
	Man's arm		
	Shawnigan Lake, Vancouver Island		
	15.XI.1910		
	E. M. Anderson		
	Returned 15.XI.1911		
	Ticks received from Dr. H. H. Marshall, 4 Voyle Road, Rangoon, Burma, India 14 November, 1911. Posted 9 October 1911:-		
N	1379	N	1379
		RML	110198
	<u>Boophilus australis</u> 4 ♀'s		4 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Rangoon, India		Rangoon (16.47 N, 96.10 E), Burma
	1.X.1911		1.X.1911
	H. H. Marshall		H. H. Marshall
N	1380	N	1380
		RML	110199
	<u>Rhipicephalus sanguineus</u> 1 ♂, 2 ♀		1 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Rangoon, India		Rangoon (16.47 N, 96.10 E), Burma
	5.X.1911		5.X.1911
	H. H. Marshall		H. H. Marshall

ORIGINAL DETERMINATIONCURRENT STATUS

N	1381	N	1381
		RML	110200
	<u>Rhipicephalus sanguineus</u> 1 ♀		1 ♀ <u>Rhipicephalus sanguineus</u>
	Off house wall		Off house wall
	Rangoon, India		Rangoon (16.47 N, 96.10 E), Burma
	2.X.1911		2.X.1911
	H. H. Marshall		H. H. Marshall
N	1382	N	1382
		RML	110201
	<u>Rhipicephalus sanguineus</u> 2 ♀		2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Rangoon, India		Rangoon (16.47 N, 96.10 E), Burma
	X.1911		X.1911
	H. H. Marshall		H. H. Marshall
N	1383	N	1383
		RML	110202
	<u>Boophilus australis</u> 1 ♀ (unfed)		1 ♀ <u>Boophilus microplus</u>
	Calf		Calf
	Rangoon, India		Rangoon (16.47 N, 96.10 E), Burma
	30.IX.1911		30.IX.1911
	H. H. Marshall		H. H. Marshall

ORIGINAL DETERMINATIONCURRENT STATUS

N 1384, a

(1384) Boophilus australis ♂
(a) Haemaphysalis bispinosa 1 ♀

Goat

Rangoon, India

3.IX.1911

H. H. Marshall

N 1384, a

RML 86305

(1384) 1 ♂ Boophilus microplus
(a) 1 ♀ Haemaphysalis bispinosa

Goat

Rangoon (16.47 N, 96.10 E), Burma

3.IX.1911

H. H. Marshall

Cited: Nuttall & Warburton (1915: 432).

Received from Hon. N. C. Rothschild [1385-1399].

N 1385

Ixodes hexagonus 1 ♀, N's, L's

Ferrets

Chatteris, Cambridgeshire

18.XI.1911

A. Parkinson

N 1385

RML 110203

1 ♀, 8 N, 7 L Ixodes hexagonus

Mustela furo

Chatteris (52.27 N, 00.03 E),
Cambridgeshire, England

18.XI.1911

A. Parkinson

The vial label for the larvae is
mislabelled N 1835
Cited: Nuttall (1916 : 328).

N 1386

Amblyomma sp. N's, L's

Cariacus virginianus mexicanus

San Rafael, Vera Cruz, Mexico

27.III.1903

[R 249]

N 1386

RML 110204

14 N, 2 L Amblyomma sp.

Odocoileus virginianus

San Rafael (20.12 N, 96.51 W),
Veracruz, Mexico

27.III.1903

ORIGINAL DETERMINATIONCURRENT STATUS

N	1387	N	1387
		RML	110205
	? Genus 1 N		1 N <u>Dermacentor andersoni</u>
	<u>Lagomys princeps</u>		<u>Ochotona princeps</u>
	Canadian National Park, ? Ottawa, Canada		Probably Banff National Park (51.38 N, 116.22 W), Alberta, Canada
	5.VIII.1899		5.VIII.1899
	J. F. Dippie		J. F. Dippie
	[R 264]		Ontario is far to the east of the ranges of <u>D. andersoni</u> and the pika. The Canadian National Park and the date 1899 indicate that this collection and N 1390 are related.
N	1388	N	1388 MISSING
	<u>Argas</u> sp. 1 L		
	<u>Putorius energermanis</u>		
	Sumas, B. C., Canada		
	III.1903		
	[R 162]		
N	1389	N	1389
		RML	110206
	<u>Ixodes</u> sp. larvae		3 N <u>Ixodes</u> sp.
	<u>Cryomys longicaudatus</u>		<u>Oryzomys longicaudatus</u>
	Valpariso, Chili (sic.)		Valpariso (33.02 S, 71.38 W), Chile
	? Date		? Date
	J. A. Wolffshon		J. A. Wolffshon
	[R 155]		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1390	N	1390
		RML	110207
	? genus (has eyes) 2 N		2 N <u>Dermacentor andersoni</u>
	Banff, Alberta, Canada		Banff (51.38 N, 116.22 W), Alberta, Canada
	9.VII.1899		9.VII.1899
	[R 280]		
N	1391	N	1391
		RML	110208
	? genus 4 N		3 N <u>Amblyomma</u> sp.
	<u>Didelphys</u> sp.		<u>Didelphis</u> sp.
	Sapucay, Paraguay, S. America		Sapucaí (25.19 S, 56.55 W), Paraguay
	? Date		? Date
	[R 269]		
N	1392	N	1392
		RML	110209
	<u>Amblyomma</u> sp. N's		10 N <u>Amblyomma</u> sp.
	Hare Wallaby (<u>C. conspicillatus</u>)		<u>Lagorchestes conspicillatus</u>
	Barrow Island, N.W. Australia		Barrow Island (30.48 S, 115.23 E), Australia
	[R 187]		
N	1393	N	1393
		RML	110210
	<u>Amblyomma</u> sp. larvae		64 L <u>Amblyomma</u> sp.
	<u>Bettongia penicillata</u>		<u>Bettongia penicillata</u>
	Bokerup, W. Australia		Possibly Bokerup Swamp (34.24 S, 116.50 E), Australia
	20.IV.1900		20.IV.1900
	[R 176]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1394	N	1394
		RML	110211
	<u>Amblyomma</u> sp. 2 N		2 N <u>Amblyomma</u> sp.
	<u>Ontalís vetula macalii</u>		<u>Neotoma alleni vetula</u>
	Frontera, Tabasco, Switzerland (sic.)		Frontera (18.32 N, 92.38 W), Tabasco, Mexico
	18.V		18.V
	[R 227]		
N	1395	N	1395
		RML	110212
	<u>Rhipicephalus</u> sp. N's		2 N <u>Rhipicephalus</u> sp.
	<u>Hyaena crocuta</u>		<u>Hyaena hyaena</u>
	Darje		Darje
	? Date		? Date
	Von Erlanger		Von Erlanger
			See Nuttall 575X for a discussion of possible locations for Darje
N	1396	N	1396
		RML	110213
	<u>Amblyomma</u> sp. 1 N		1 N <u>Amblyomma</u> sp.
	Black squirrel		<u>Sciurus</u> sp.
	Frontera, Tabasco		Frontera (18.32 N, 92.38 W), Tabasco, Mexico
	19.V		19.V
	[R 246]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1397	N	1397
		RML	110214
	<u>Amblyomma</u> sp. larvae		26 L <u>Amblyomma</u> sp.
	<u>Macropus eugenii</u>		<u>Macropus fuliginosus</u>
	Cranbrook, W. Australia		Cranbrook (34.18 S, 117.32 E), Australia
	6.III.1910		6.III.1910
	[R 171]		
N	1398	N	1398
		RML	110215
	? genus 1 larva		1 L <u>Hyalomma</u> sp.
	<u>Gerbillus gerbillus</u>		<u>Gerbillus gerbillus</u>
	Zaghig		Probably Zagazig now Az Zagaziq (30.35 N, 31.31 E), Egypt
	1.III.1903		1.III.1903
	Hon. N. C. Rothschild		Hon. N. C. Rothschild
			The Hon. N. C. Rothschild was in the Nile delta area of Egypt in the early months of 1903 - The Hon. Miriam Rothschild (in litt.)
N	1399	N	1399
		RML	110216
	<u>Ixodes</u> sp. N's		4 N, 4 L <u>Ixodes texanus</u>
	<u>Putorius energermanis</u>		<u>Mustela vison</u>
	Sumas, B.C., Canada		Sumas (49.00 N, 122.13 W), Washington, U.S.A.
	III.1903		III.1903
	[R 162b]		

Ticks purchased from Mr. T. V. Sherrin (taxidermist), The Limes,
Nightingale Road, Hampton, 29.VII.1911:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1400	N	1400
		RML	97408
<u>Haemaphysalis warburtoni</u> TYPES 4 ♂'s, 9 ♀'s		3 ♂, 8 ♀ <u>Haemaphysalis warburtoni</u> 1 ♂ Lectotype, 2 ♂, 8 ♀ paralectotypes	
Serow goat		Probably <u>Capricornis sumatraensis</u> <u>milneedwardsi</u>	
Wen-chwan-hsien, near Si-ho-hsien, China		Wen-Ch'uan (44.59 N, 81.04 E), Sinkiang Province, Peoples Republic of China	
1.VII.1911		1.VII.1911	
		Nuttall (1912: 55) original description. Cited: Nuttall & Warburton (1915: 371). Both of the above citations listed 5 ♂, 9 ♀ in the collection. Hoogstraal (1966: 787) selected the ♂ lectotype and listed an additional 1 ♂, 9 ♀ paralectotypes.	
N	1401	N	1401
		RML	110217
<u>Ixodes ricinoides</u> 1 ♀ TYPE		1 ♀ <u>Ixodes nuttallianus</u> Lectotype	
Swamp deer		<u>Hydropotes inermis</u>	
Wen Chwan-hsien, near Si-ho-hsien, China		Wen-Ch'uan (44.59 N, 81.04 E) Sinkiang Province, Peoples Republic of China	
1.VII.1911		1.VII.1911	
		Nuttall (1913b: 136), original description. Cited: Clifford et al (1971: 439). Lectotype designated. Keirans & Brewster (1981: 168).	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1402	N	1402
		RML	110218
	<u>Ixodes ricinoides</u> 4 ♀ TYPES		3 ♀ <u>Ixodes nuttallianus</u> Paralectotypes
	Musk deer		<u>Moschus moschiferus</u>
	Wen-Chwan-hsien, near Si-ho-hsien, China		Wen-Ch'uan (44.59 N, 81.04 E), Sinkiang Province, Peoples Republic of China
	1.VII.1911		1.VII.1911
			Nuttall (1913: 136), original description. Cited: Clifford et al (1971: 439). Paralectotypes designated: Keirans & Brewster (1981: 163).
N	1403	N	1403 MISSING
	<u>Aponomma</u> sp.		
	<u>Simocephalus butleri</u>		
	Bussu, Uganda, B.E. Africa		
	VII.1911		
N	1404	N	1404 MISSING
	<u>Aponomma</u> sp.		
	<u>Grusus resimus</u>		
	Bussu, Uganda, B.E. Africa		
	VII.1911		
N	1405	N	1405 MISSING
	<u>Aponomma</u> sp.		
	<u>Boodon lineatus</u>		
	Bussu, Uganda, B.E. Africa		
	VII.1911		

Ticks received from the Indian Museum, Calcutta, India (per Dr. N. Annandale), September, 1911. Determined by Mr. C. Warburton, as follows:

<u>Argas reflexus</u> var. found between the <u>leaves of a book</u> in the Library <u>indicus</u> (1) of the Indian Museum, Calcutta, 18.XII.1907.		Ind. Mus. $\frac{953}{17}$
<u>Amb1. annandalei</u>	♀ Warb., 1910. Off <u>Geoemuda spinora</u> , from Burma, India.	Ind. Mus. $\frac{19}{1}$
<u>Rhip. sanguineus</u>	♂s ♀s. off <u>dog</u> , Shai-Kara-Naraya (---?), India, 29.XII.1907.	Ind. Mus. $\frac{TM}{3}$
Gamasid mites	taken from behind gills of <u>Catla buehanani</u> , Siripur Savan, India, 23.I.1911. B. L. Chandhuri.	Ind. Mus. $\frac{1078}{17}$
<u>Rhip. sanguineus</u>	♀'s, off <u>dog</u> , recently brought from Nelore, to Calcutta, II-III.1911.	Ind. Mus. $\frac{1049}{19}$
<u>Argas persicus</u> ?	larvae, off <u>crow</u> (<u>Corvus splendens</u>), Calcutta, 14.III.1911. F.H.G.	Ind. Mus. $\frac{1080}{17}$
<u>Apon. gervaisi</u> var. <u>lucasi</u>	2 ♂'s, off <u>Eryx conicus</u> , Zoological Gardens, Calcutta, 5.III.1911. F.H. Gravely.	Ind. Mus. $\frac{1081}{17}$
<u>Haem. bispinosa</u>	♂'s, off <u>Felis tigris</u> , Neapalgonj, Nepal Frontier, 22.II.1911.	Ind. Mus. $\frac{1082}{17}$
<u>Haem. bispinosa</u>	♂s ♀s N's, off <u>sheep</u> , Shai-Kara Nayara (?) India, Trev. Dux (?)	Ind. Mus. $\frac{TM}{2}$

ORIGINAL DETERMINATIONCURRENT STATUS

N 1406

Haemaphysalis bispinosa ♂'s, ♀'s

Sheep

Shai-Kara Nayara, India

XII.1910

(Ex Indian Museum Coll) $\frac{TM}{2}$

N 1407

Haemaphysalis montgomeryi 1 ♂

Dog

Balaghat, Central Provinces,
India

1908

S. H. Gaiger

Rec'd 23.VII.1911

N 1406

RML 110219

3 ♂, 3 ♀ Haemaphysalis bispinosa

Sheep

Shai-Kara Nayara, India (locality
not verified)

XII.1910

N 1407

RML 110220

1 ♂ Haemaphysalis montgomeryi

Dog

Balaghat (21.48 N, 80.11 E),
India

1908

S. H. Gaiger

Cited: Nuttall & Warburton
(1915: 397).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1408	N	1408
		RML	110221
	<u>Rhipicephalus neavei</u> 2 ♂, 2 ♀		1 ♂, 1 ♀ <u>Rhipicephalus kochi</u>
	Bush-buck		<u>Tragelaphus scriptus</u>
	Lower Shire Valley, Nyasaland		Nsanje District (16.45 S, 35.10 E), Malawi
	IV.1910		IV.1910
	S. A. Neave		S. A. Neave
	ERC No. 74		
N	1409	N	1409
		RML	110222
	<u>Rhipicephalus sculptus</u> (types) ♂, ♀		1 ♂, 1 ♀ <u>Rhipicephalus sculptus</u> Lectotype and paralectotypes
	S. Rukura Valley, N. Nyasaland		Possibly South Rukuru River (10.44 S, 34.14 E), Malawi
	VI.1910		VI.1910
	S. A. Neave		S. A. Neave
	ERC No. 115b		Warburton (1912: 13) original description; cited: Santos Dias (1958: 479). Lectotype designated: Keirans & Brewster (1981: 171).
N	1410	N	1410
		RML	110223
	<u>Rhipicephalus neavei</u> ♂'s		4 ♂ <u>Rhipicephalus kochi</u>
	<u>Lepus whytei</u>		<u>Lepus whytei</u>
	Zomba, Nyasaland		Zomba (15.23 S, 35.20 E), Malawi
	V.1910		V.1910
	S. A. Neave		S. A. Neave
	ERC No. 126a		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1411	N	1411
	<u>Rhipicephalus neavei</u> var <u>punctatus</u> ♂'s, ♀'s	RML	110224
	Kudu		2 ♂, 1 ♀ <u>Rhipicephalus punctatus</u> Lectotype and paralectotype of <u>R. neavei punctatus</u>
	Near Fort Mlangeni, Central Angoniland, B.E. Africa		<u>Tragelaphus strepsiceros</u> Near Fort Mlangeni (14.41 S, 34.32 E), Ncheu District, Malawi
	V.1910		V.1910
	S. A. Neave		S. A. Neave
	ERC No. 132		Warburton (1912: 10) original description of <u>R. neavei punctatus</u> . Cited: Walker (1956: 250). Lecto-type designated: Keirans & Brewster (1981: 170, 171).
N	1412	N	1412
	<u>Rhipicephalus neavei</u> ♂, ♀	RML	110225
	Momberas cattle		2 ♂, 1 ♀ <u>Rhipicephalus kochi</u> Momberas cattle
	Mombera District, Nyasaland		Mombera (11.41, 33.43 E), Mzimba District, Malawi
	VI.1910		VI.1910
	S. A. Neave		S. A. Neave
	ERC No. 138c		
N	1413	N	1413
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s	RML	110226
	Eland		2 ♂, 2 ♀ <u>Rhipicephalus kochi</u> <u>Taurotragus oryx</u>
	Mid Luangwa Valley, N.E. Rhodesia		Mid Luangwa Valley (vicinity 13.20 S, 31.20 E), Zambia
	31.VIII.1910		31.VIII.1910
	S. A. Neave		S. A. Neave

ORIGINAL DETERMINATIONCURRENT STATUS

N	1414	N	1414
		RML	110227
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s		4 ♂, 4 ♀ <u>Rhipicephalus kochi</u> Lectotype and paralectotypes of <u>R. neavei</u>
	Eland		<u>Taurotragus oryx</u>
	Near mouth of Lasangazi River, Luangwa Valley, N.E. Rhodesia		Probably Lusangashi River (vicinity of 13.25 S, 31.34 E), Zambia
	1.IX.1910		1.IX.1910
	S. A. Neave		S. A. Neave
	ERC No. 168		Warburton (1912: 7) original description and on p. 9 spells the locality as Tasangazi River, Luangwe Valley. Walker (1956: 50) noted that on maps of the area the river is also spelled Lusangazi. Santos Dias (1958: 478) indicated that this collection contained 1 ♂, 1 ♀ <u>R.</u> <u>neavei</u> . An additional 14 ♂, 6 ♀ of this collection are in the general tick collection of the BMNH (Reg. No. 1911. 12.5.16-40). Lectotype designated: Keirans & Brewster (1981: 170).
N	1415	N	1415
		RML	110228
	<u>Rhipicephalus simus falcatus</u> ♂'s, ♀'s		5 ♂, 2 ♀ <u>Rhipicephalus longus</u>
	Off grass		Off grass
	Baro, Abyssinia, B.E. Africa		Wadi Baro (07.59 N, 33.22 E), Ethiopia
	16.X.1910		16.X.1910
	J. J. Simpson		J. J. Simpson
	ERC No. 186		
	Note: Transition forms. <u>falcatus</u> is probably nothing but = <u>simus</u> in consequence of finding this lot.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1416

Rhipicephalus simus ♂'s, ♀'s

Horse

Kontagora, B.E. Africa

5.X.1910

J. J. Simpson

ERC No. 182

N 1417

Amblyomma tholloni ♂'s, ♀'s

Elephant

Toro, W. Africa

11.II.1910

Dr. R. van Someren

ERC No. 188

1 ♂, 1 ♀ to R. Matheson, Cornell,
27.V.1929.

N 1416

RML 110229

2 ♂, 3 ♀ Rhipicephalus simus

Horse

Kontagora, Kenya (locality not
verified)

5.X.1910

J. J. Simpson

N 1417

RML 110230

3 ♂, 4 ♀ Amblyomma tholloni

Loxodonta africana

Toro (00.19 N, 37.56 E), Kenya

11.II.1910

Dr. R. van Someren

Vial label reads Toro, British
East Africa, which is undoubtedly
correct, the van Someren family
being well known for Kenyan natural
history.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1418	N	1418
		RML	110231
	<u>Rhipicephalus maculatus</u> ♂'s, ♀'s		2 ♂, 2 ♀ <u>Rhipicephalus maculatus</u>
	Buffalo		<u>Syncerus caffer</u>
	Chiromo, B.C. Africa		Chiromo (16.33 S, 35.08 E), Malawi
	I.1911		I.1911
	D. H.S. Stannus		Dr. H.S. Stannus
	ERC No. 193		
N	1419	N	1419
		RML	110232
	<u>Rhipicephalus maculatus</u> ♂'s		3 ♂ <u>Rhipicephalus maculatus</u>
	Buffalo		<u>Syncerus caffer</u>
	Chiromo, B.C. Africa		Chiromo (16.33 S, 35.08 E), Malawi
	I.1911		I.1911
	Dr. H.S. Stannus		Dr. H.S. Stannus
	ERC No. 194		
N	1420	N	1420
		RML	110233
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s		2 ♂, 4 ♀ <u>Rhipicephalus kochi</u>
	Buffalo		<u>Syncerus caffer</u>
	Chiromo, B.C. Africa		Chiromo (16.33 S, 35.08 E), Malawi
	I.1911		I.1911
	Dr. H.S. Stannus		Dr. H.S. Stannus
	ERC No. 194a		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1421	N	1421
		RML	110234
	<u>Amblyomma nuttalli</u> ♂		1 ♂ <u>Amblyomma nuttalli</u>
	Iguana		Iguana
	Offa, S. Nigeria		Either Offa (07.58 N, 04.19 E), or (08.09 N, 04.43 E) Nigeria
	29.IX.1910		29.IX.1910
	R. C. Hiscock		R. C. Hiscock
	ERC No. 210a		Cited: Robinson (1926: 93); Theiler and Salisbury (1959: 115).
N	1422	N	1422
		RML	110235
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s		5 ♂, 1 ♀ <u>Haemaphysalis leachi</u>
	Dog		Dog
	Nairobi, B.E. Africa		Nairobi (01.17 S, 36.49 E), Kenya
	12.IV.1911		12.IV.1911
	T.J. Anderson		T.J. Anderson
	ERC No. 291		Cited: Nuttall & Warburton (1915: 469).
	2 ♂, 1 ♀ to C. Strickland, Malaya		
N	1423	N	1423
		RML	110236
	<u>Amblyomma variegatum</u> ♀'s		3 ♀ <u>Amblyomma variegatum</u>
	Cattle		Cattle
	Near Karunga, E. Shore of Victoria, Nyanza, B.E. Africa		Near Karunga (00.51 S, 34.09 E), Nyanza Region, Kenya
	29.IV.1911		29.IV.1911
	S.A. Neave		S.A. Neave
	ERC No. 302		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1424	N	1424
		RML	110237
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		10 ♂, 6 ♀ <u>Rhipicephalus simus</u>
	Lion		<u>Panthera leo</u>
	Yatta Plains, Ukamba Province (50 miles SE of Nairobi) E. African Protectorate		Yatta Plateau (02.00 S, 38.00 E), Kenya
	20.VII.1911		20.VII.1911
	S.W.J. Scholefield		S.W.J. Scholefield
	ERC No. 317		
N	1425	N	1425
		RML	110238
	<u>Rhipicephalus capensis</u> ♂'s, ♀'s		3 ♂, 5 ♀ <u>Rhipicephalus compositus</u>
	Buffalo (<u>Bos caffer</u>)		<u>Syncerus caffer</u>
	Ruo District, Nyasaland		Perhaps Ruo Basin (15.54 S, 35.39 E), Malawi
	13.VII.1911		13.VII.1911
	J.E.S. 01d		J.E.S. 01d
	ERC No. 312		
N	1426	N	1426
		RML	66677
	<u>Rhipicephalus armatus</u> ♂'s, ♀'s		4 ♂, 2 ♀ <u>Rhipicephalus armatus</u>
	Wild dog		<u>Lycaon pictus</u>
	Mowa River (60 mi SE of Kitui) E. African Protectorate		Mowa River 96 km SE of Kitui (01.22 S, 38.01 E), Kenya
	V.1911		V.1911
	S.W.J. Scholefield		S.W.J. Scholefield
	ERC No. 320		Note in vial: 1 ♂, 1 ♀ taken by M. Sharif 16.VI.1936

ORIGINAL DETERMINATIONCURRENT STATUS

N	1427	N	1427
		RML	110239
	<u>Aponomma exornatum</u> 2 ♂, 1 ♀, 2 N		2 ♂, 1 ♀, 2 N <u>Aponomma flavomaculatum</u>
	Large lizard (Iguana?)		Large lizard (Iguana?)
	Caught in house at Nimule, Uganda B.E. Africa		Caught in house at Nimule, Uganda (locality not verified)
	VII.1911		VII.1911
	Dr. R.E. McConnell		Dr. R.E. McConnell
	ERC No. 301		
N	1428	N	1428 MISSING
	<u>Amblyomma marmoreum</u> 2 ♂, ♀		
	Rhinoceros		
	Yatta Plains, Kitui, E. African Protectorate		
	8.V.1911		
	S.W.J. Scholefield		
	ERC No. 324		
N	1429	N	1429 MISSING
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		
	Cattle		
	Dokolo, B.E. Africa		
	2.IV.1911		
	C.C. Gowdey		
	ERC No. 294		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1430	N	1430
		RML	110240
	<u>Rhipicephalus maculatus</u> ♂		1 ♂ <u>Rhipicephalus maculatus</u>
	Off grasses		Off grasses
	On road to Kilossa, S. Usagara, German East Africa		On road to Kilosa (06.50 S, 36.59 E), Morogoro Region, Tanzania
	XII.1910		XII.1910
	S.A. Neave		S.A. Neave
	ERC No. 205a		
N	1431	N	1431
		RML	110241
	<u>Rhipicephalus sulcatus</u> 2 ♀'s		2 ♀ <u>Rhipicephalus sulcatus</u>
	Domestic cat		Domestic cat
	Zomba, Nyasaland		Zomba, (15.23 S, 35.20 E), Malawi
	14.XII.1910		14.XII.1910
	A.M.D. Turnbull		A.M.D. Turnbull
	ERC No. 251		
N	1432	N	1432
		RML	110242
	<u>Amblyomma gemma</u> 3 ♂, 1 ♀		3 ♂, 1 ♀ <u>Amblyomma gemma</u>
	<u>Oryx capensis</u>		<u>Oryx gazella</u>
	Mowa River (60 miles SE of Kitui), B.E. Africa		Mowa River, 96 km SE of Kitui (01.22 S, 38.01 E), Kenya
	V.1911		V.1911
	S.W.J. Scholefield		S.W.J. Scholefield
	ERC No. 321a		Cited: Robinson (1926: 122).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1433

N 1433

RML 110243

Rhipicephalus pulchellus ♂'s, ♀'s3 ♂, 3 ♀ Rhipicephalus pulchellusRhinocerosDiceros bicornisYatta Plains, Ukamba Province
(50 miles SE of Nairobi), B.E.
AfricaYatta Plateau (02.00 S, 38.00 E),
Kenya

6.VIII.1910

6.VIII.1910

S.W.J. Scholefield

S.W.J. Scholefield

ERC No. 316a

N 1434

N 1434

RML 110244

Rhipicephalus simus ♂'s, ♀'s1 ♂, 2 ♀ Rhipicephalus simus

Dog

Dog

Lango, Uganda, B.E. Africa

District of Lango (20.10 N, 33.00 E),
Uganda

VI.1911

VI.1911

Dr. McConnell

Dr. McConnell

ERC No. 300d

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1435	N	1435
		RML	110245
<u>Amblyomma petersi</u> 4 ♂'s		3 ♂ <u>Amblyomma rhinocerotis</u>	
Rhinoceros		<u>Diceros bicornis</u>	
Yatta Plains, Ukamba Province (50 miles SE of Nairobi), B.E. Africa		Yatta Plateau (02.00 S, 38.00 E), Kenya	
6.VIII.1910		6.VIII.1910	
S.W.J. Scholefield		S.W.J. Scholefield	
ERC No. 315c		Cited: Robinson (1926: 264).	
1 ♂ to Prof. R. Matheson, Cornell, 27.V.1929			
N	1436	N	1436
		RML	110246
<u>Ornithodoros savignyi</u> (6)		1 ♂, 2 ♀, 3 N <u>Ornithodoros savignyi</u>	
Found in dust (where hartebeeste and rhino roll)		Found in dust (where <u>Alcephus buselophus</u> and <u>Diceros bicornis</u> roll)	
Yatta Plains, Ukamba Province B.E. Africa		Yatta Plateau (02.00 S, 38.00 E), Kenya	
5.VIII.1910		5.VIII.1910	
S.W.J. Scholefield		S.W.J. Scholefield	
ERC No. 318			
N	1437	N	1437
		RML	110247
<u>Amblyomma variegatum</u> ♂'s, 1 ♀		9 ♂, 1 ♀ <u>Amblyomma variegatum</u>	
Goats		Goats	
Teita Hills, near Voi, B.E. Africa		Teita Hills, near Voi (03.23 S, 38.34 E), Kenya	
11.IX.1911		11.IX.1911	
R. P. Thomas		R. P. Thomas	
ERC No. 330			

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1438	N	1438
		RML	110248
	<u>Amblyomma marmoreum</u> ♂'s, ♀'s		2 ♂, 1 ♀ <u>Amblyomma sparsum</u>
	Rhinoceros		<u>Diceros bicornis</u>
	Yatta Plains, Ukamba Province, B.E. Africa		Yatta Plateau (02.00 S, 38.00 E), Kenya
	6.VIII.1910		6.VIII.1910
	S.W.J. Scholefield		S.W.J. Scholefield
	ERC No. 315a (1 ♀ mounted in cell on slide II.1915)		Slide missing Cited: Robinson (1926: 90).
N	1439	N	1439
		RML	110249
	<u>Rhipicephalus sulcatus</u> 3 ♂, 1 ♀		2 ♂, 1 ♀ <u>Rhipicephalus sulcatus</u>
	Domestic cat		Domestic cat
	Zomba, Nyasaland, B.C. Africa		Zomba (15.23 S, 35.20 E), Malawi
	8.XII.1910		8.XII.1910
			A.M.D. Turnbull
			Collector's name on vial label
N	1440	N	1440
		RML	110250
	<u>Dermacentor rhinocerotis</u> ♂'s, ♀'s		4 ♂, 3 ♀ <u>Dermacentor rhinocerus</u>
	Rhinoceros		Either <u>Diceros bicornis</u> or <u>Ceratotherium simum</u>
	Lango, Uganda, B.E. Africa		District of Lango (02.10 N, 33.00 E), Uganda
	VII.1911		VII.1911
	Dr. McConnell		Dr. McConnell
	ERC No. 299a 1 ♂, 1 ♀ to Dr. Kudicke, Dar es Salaam, German East Africa 22.VII.1914		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1441	N	1441
		RML	110251
	<u>Rhipicephalus falcatus</u> ♂'s, ♀'s		13 ♂, 12 ♀ <u>Rhipicephalus senegalensis</u>
	Off grass		Off grass
	Zomba, Nyasaland		Zomba (15.23 S, 35.20 E), Malawi
	1910		1910
	Dr. J.E.S. Old		Dr. J.E.S. Old
N	1442	N	1442
		RML	110252
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s		14 ♂, 4 ♀ <u>Rhipicephalus pravus</u>
	Lesser Kudu		<u>Tragelaphus imberbis</u>
	Makindu, B.E. Africa		Makindu (02.17 S, 37.49 E), Kenya
	6.IV.1911		6.IV.1911
	S.A. Neave		S.A. Neave
	ERC No. 262a		
	1 ♂, 1 ♀ to Dr. S. Hadwen, British Columbia, Canada 10.X.1913		
	1 ♂, 1 ♀ to J. de Meza, Zomba, Nyasaland 19.II.1916		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1443	N	1443
		RML	110299
	<u>Amblyomma nuttalli</u> 1 ♀ (gorged)		1 ♀ <u>Amblyomma nuttalli</u>
	Iguana (2 ft. long)		Iguana
	Offa, S. Nigeria		Either Offa (07.58 N, 04.19 E) or Offa (08.09 N, 04.43 E), Nigeria
	2.XI.1910		2.XI.1910
	R.C. Hiscock		R.C. Hiscock
	ERC No. 209a		Cited: Robinson (1926: 93); Theiler & Salisbury (1959: 115) incorrectly gave the collection date as 29.IX.1910.
N	1444	N	1444
		RML	110300
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s		5 ♂, 5 ♀ <u>Rhipicephalus kochi</u>
	Old Roan Antelope		<u>Hippotragus equinus</u>
	Maplua, Marimba, Nyasaland		Maplua, Malawi (locality not verified)
	I.1911		I.1911
	Dr. J.E.S. Old		Dr. J.E.S. Old
	ERC No. 226		Vial label date reads I.1910
N	1445	N	1445 MISSING
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		
	Teita Hills, near Voi, B.E. Africa		
	11.IX.1911		
	R.P. Thomas		
	ERC No. 328		

ORIGINAL DETERMINATION	CURRENT STATUS
N 1446 <u>Rhipicephalus pulchellus</u> Rhinoceros Yatta Plains, Ukamba Province (50 miles SE of Nairobi), B.E. Africa 6.VIII.1910 S.W.J. Scholefield ERC No. 315	N 1446 RML 110301 1 ♂, 2 ♀ <u>Rhipicephalus pulchellus</u> <u>Diceros bicornis</u> Yatta Plateau (02.00 S, 38.00 E) Kenya 6.VIII.1910 S.W.J. Scholefield The 2 ♀ specimens are pinned. 1 ♂ specimen is in a jar marked "Tick abnormalities" and has been figured by Nuttall (1914a: 255)
N 1447 <u>Rhipicephalus neavei</u> Impala Makindu, Uganda, B.E. Africa 6.IV.1911 S. A. Neave ERC No. 260a	N 1447 RML 110302 8 ♂, 3 ♀ <u>Rhipicephalus pravus</u> <u>Aepyceros melampus</u> Makindu (02.17 S, 37.49 E), Kenya 6.IV.1911 S. A. Neave (see N 1442)
N 1448 <u>Rhipicephalus sculptus</u> 4 ♂, 3 ♀ Roan antelope Mpalali River, Marimba, Myasaland Dr. J.E.S. Old 1.I.1911 ERC No. 227a	N 1448 RML 110303 3 ♂, 2 ♀ <u>Rhipicephalus sculptus</u> SYNTYPES <u>Hippotragus equinus</u> Possibly Mpala River now known as Mipala River (15.55 S, 35.16 E), Malawi Dr J.E.S. Old 1.I.1911 Warburton (1912:13) original descrip- tion. The vulva of one ♀ is mounted on a slide. For a photograph of this genital aperture see Feldman-Muhsam (1956)

ORIGINAL DETERMINATIONCURRENT STATUS

N 1449

Rhipicephalus lunulatus 2 ♂'s

Dog

Lango, Uganda B.E. Africa

VI.1911

Dr. McConnell

N 1449

RML 110304

1 ♂ Rhipicephalus lunulatus
1 ♂ Rhipicephalus simus

Dog

District of Lango (02.10 N, 33.00 E),
Uganda

VI.1911

Dr. McConnell

N 1450

Rhipicephalus masseyi ♂'s

Lesser Kudu

Makindu, B.E. Africa

6.IV.1911

S.A. Neave

ERC No. 262c

N 1450

RML 110305

2 ♂ Rhipicephalus muehlensi
Tragelaphus imberbis

Makindu (02.17 S, 37.49 E), Kenya

6.IV.1911

S.A. Neave

Except for the suffix on ERC 262,
this appears to be part of N 1442

N 1451

Rhipicephalus lunulatus ♂'s, ♀'s

Roan Antelope

Mpalai River, Marimba,
Nyasaland

1.I.1911

Dr. J.E.S. Old

ERC No. 227h

N 1451

RML 110306

4 ♂, 4 ♀ Rhipicephalus lunulatus
Hippotragus equinus

Possibly Mpala River now known as
Mipala River (15.55 S, 35. 16 E),
Malawi

1.I.1911

Dr. J.E.S. Old

Except for the suffix on ERC 227,
this appears to be part of N 1448.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1452	N	1452
		RML	110307
	<u>Haemaphysalis</u> sp. 1 N		1 N <u>Haemaphysalis</u> sp.
	Mouse		Mouse
	W. Foot of Aberdare Mountains, B.E. Africa		W. Foot of Aberdare Mountains (00.25 S, 36.38 E), Kenya
	1.III.1911		1.III.1911
	S.A. Neave		S.A. Neave
	ERC No. 270a		
N	1453	N	1453
		RML	110308
	<u>Ixodes</u> sp. 3 N		3 N <u>Ixodes</u> sp.
	<u>Crosidura</u> sp.		Probably <u>Crosidura</u> sp.
	E. Foot of Aberdare Mountains B.E. Africa		E. Foot of Aberdare Mountains (00.25 S, 36.38 E), Kenya
	26.III.1911		26.III.1911
	S.A. Neave		S.A. Neave
	ERC No. 268		
N	1454	N	1454
		RML	110309
	<u>Rhipicephalus</u> sp. N's		3 N <u>Rhipicephalus</u> sp.
	Guinea-fowl (<u>Numida</u> <u>mitratus</u>)		<u>Numida</u> <u>meleagris</u>
	Lower Lilongwe River, Central Angoniland Nyasaland, B.C. Africa		Lilongwe River (15.57 S, 35.07 E), District of Cholo, Malawi
	X.1910		X.1910
	S.A. Neave		S.A. Neave
	ERC No. 211		Two different species of <u>Rhipicephalus</u> are present in this collection.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1455	N	1455
		RML	110310
	<u>Ixodes</u> sp. 1 N		1 N <u>Ixodes</u> sp.
	Mouse		Mouse
	W. Foot of Aberdare Mountains, B.E. Africa		W. Foot of Aberdare Mountains (00.25 S, 36.38 E), Kenya
	1.III.1911		1.III.1911
	S.A. Neave		S.A. Neave
	ERC No. 270b		Except for the suffix on ERC 270, this appears to be part of N 1452
N	1456	N	1456
		RML	110311
	<u>Rhipicephalus</u> sp. 2 N's		2 N <u>Rhipicephalus</u> sp.
	"Self"		<u>Homo sapiens</u>
	Taveta Road, B.E. Africa		Taveta area (03.30 S, 37.42 E), Coast Region, Kenya
	1911		1911
	R.P. Thomas		R.P. Thomas
	ERC No. 327		
N	1457	N	1457
		RML	110312
	<u>Amblyomma</u> sp. 2 L's		2 L <u>Amblyomma</u> sp.
	Rhinoceros		Either <u>Diceros bicornis</u> or <u>Ceratotherium simum</u>
	Lango, Uganda, B.C. Africa		District of Lango (02.10 N, 33.00 E), Uganda
	VII.1911		VII.1911
	Dr. McConnell		Dr. McConnell
	ERC No. 299c		Except for the suffix on ERC 299, this appears to be part of N 1440

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1458	N	1458
		RML	110313
Genus 4 N, 1 L		1 N <u>Amblyomma</u> sp.	
Water-buck		<u>Kobus ellipsiprymnus</u>	
Masengari, L. Shire, Nyasaland, B.C. Africa		Masengari, District of Nsanje (16.45 S, 35.10 E), Malawi	
VIII.1910		VIII.1910	
Dr. J.E.S. Old		Dr. J.E.S. Old	
ERC No. 274			
N	1459	N	1459
		RML	110314
<u>Rhipicephalus neavei</u>		3 ♂, 1 ♀ <u>Rhipicephalus kochi</u>	
Eland		<u>Taurotragus oryx</u>	
Mid Luangwa Valley, N.E. Rhodesia		Mid Luangwa Valley (vicinity of 13.20 S, 31.20 E), Zambia	
10.IX.1910		10.IX.1910	
S. A. Neave		S. A. Neave	
ERC No. 167a		Except for the collection date this Nuttall collection is identical with N 1413.	
N	1460	N	1460
		RML	110315
<u>Rhipicephalus longus</u> 1 ♂ (Type!)		1 ♂ <u>Rhipicephalus longus</u> TYPE	
Cattle		Cattle	
Kasongo, Nyasaland, B.C. Africa		Kasonga (15.18 S, 35.17 E), District of Zomba, Malawi	
Rec'd IX.1911		Rec'd IX.1911	
Rec'd from Liverpool School of Trop- ical Medicine. (<u>Rhip. falcatus</u>) (Presented to our collection by Prof. R. Newstead 8.III.1912).		Neumann (1907:117) original description. Cited: Santos Dias (1958: 473,474).	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	None	N	None MISSING
	<u>Ixodes ricinus</u> ♀		
	No data		
	In the Newcastle Museum. Sent by Mr. R.S. Bagnall, Penshaw Lodge, Penshaw, Co. Durham, 22.XII.1911 for identification. Returned 29.XII.1911		
N	1461	N	1461
		RML	110316
	<u>Rhipicephalus appendiculatus</u> larvae (gorged)		36 L <u>Rhipicephalus appendiculatus</u>
	Cape Colony, Africa		Cape Colony, Republic of South Africa
	Rec'd III.1906		Rec'd III.1906
	Rec'd from Mr. C.P. Lounsbury, Dept. of Agriculture		Rec'd from Mr. C.P. Lounsbury, Dept. of Agriculture
N	1462	N	1462
		RML	110317
	<u>Rhipicephalus appendiculatus</u> N's (unfed)		8 N <u>Rhipicephalus appendiculatus</u>
	Cape Colony, South Africa		Cape Colony, Republic of South Africa
	Rec'd III.1906		Rec'd III.1906
	Rec'd from Mr. C.P. Lounsbury Dept. of Agriculture		Rec'd from Mr. C.P. Lounsbury, Dept. of Agriculture
	2 ♂, 2 ♀ to Prof Sadeo Yoshida at Cambridge. 21XII.1920; 2 ♂, 2 ♀ to P.A. Buxton at Cambridge 10.II.1921; 2 ♂, 2 ♀ to Dr. D.A. de Young at Cambridge, 8.IV.1921; 2 ♂, 2 ♀ to Prof. G. Hedger-Wallace Univ. of Wales, Cardiff, 1921; 2 ♀ to Dr. S.H. Daukes, Wellcome Bureau, London, 9.I.1924		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1463	N	1463
		RML	110318
	<u>Hyalomma aegyptium</u> 2♀		2 ♀ <u>Hyalomma</u> sp.
	No particulars		No particulars
	Rec'd 1906		Rec'd 1906
	Rec'd from Mr. E.G. Wheler, Warwick		Rec'd. from Mr. E.G. Wheler, Warwick
N	1464	N	1464
		RML	110319
	<u>Hyalomma aegyptium</u> ♂		1 ♂, 1 ♀ <u>Hyalomma aegyptium</u>
	No particulars		No particulars
	Rec'd 1906		Rec'd 1906
	Rec'd. from Mr. E.G. Wheler Warwick		Rec'd from Mr. E.G. Wheler, Warwick
N	1465	N	1465
		RML	110320
	<u>Boophilus australis</u> ♀'s		5 ♀ <u>Boophilus annulatus</u>
	Probably College Station, Texas		Probably College Station (30.37 N, 96.21 W), Texas, USA
	Rec'd 1906		Rec'd 1906
	From Mr. Francis		From Mr. Francis
	Rec'd. from Mr. Wheler, Warwick, 1906		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1466	N	1466
		RML	110321
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		2 ♂, 5 ♀ <u>Hyalomma rufipes</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	Rec'd 1906		Rec'd 1906
	Rec'd from Mr. C.P. Lounsbury		Rec'd from Mr. C.P. Lounsbury
N	1467	N	1467 MISSING
	<u>Rhipicephalus appendiculatus</u> larvae		
	E. London, South Africa		
	Rec'd 18.IV.1905		
	Rec'd from Dr. Williamson		
N	1468	N	1468 MISSING
	<u>Rhipicephalus appendiculatus</u> gorged larvae		
	E. London, South Africa		
	Rec'd 18.IV.1905		
	Rec'd from Dr. Williamson		
N	1469	N	1469 MISSING
	<u>Rhipicephalus appendiculatus</u> nymphs		
	E. London, South Africa		
	Rec'd 18.IV.1905		
	Rec'd from Dr. Williamson		
N	1470	N	1470 MISSING
	<u>Rhipicephalus appendiculatus</u> 1 gorged nymph		
	E. London, South Africa		
	Rec'd 18.IV.1905		
	Rec'd from Dr. Williamson		

CURRENT STATUS

N 1471

Rhipicephalus appendiculatus
♂'s, ♀'s

E. London, South Africa

Rec'd 18.IV.1905

Rec'd. from Dr. Williamson

N 1471 MISSING

N 1472

RML 110322

Rhipicephalus appendiculatus
larvae (unfed)

Cape Colony, South Africa

Rec'd III. 1906

Rec'd from Mr. C.P. Lounsbury
Gov't. Entomologist, Dept. of
Agriculture

+ 200 L *Rhipicephalus appendiculatus*

Cape Colony, Republic of South Africa

Rec'd. III.1906

Rec'd from Mr. C.P. Lounsbury, Gov't.
Entomologist, Dept. of Agriculture

N 1473

Rhipicephalus appendiculatus ♀'s

Cape Colony, S. Africa

Rec'd III.1906

Rec'd from Mr. C.P. Lounsbury
Gov't. Entomologist, Dept. of
Agriculture

N 1473

RML 110323

1 ♂, 3 ♀ *Rhipicephalus appendiculatus*

Cape Colony, Republic of South Africa

Rec'd III.1906

Rec'd from Mr. C.P. Lounsbury, Gov't.
Entomologist, Dept. of Agriculture

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1474	N	1474
		RML	110324
	<u>Rhipicephalus appendiculatus</u> ♀'s (young)		4 ♀ <u>Rhipicephalus appendiculatus</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	Rec'd. III.1906		Rec'd III.1906
	Rec'd. from Mr. C.P. Lounsbury Gov't. Entomologist, Dept. of Agriculture		Rec'd from Mr. C.P. Lounsbury, Gov't. Entomologist, Dept. of Agriculture
N	1475	N	1475 MISSING
	<u>Amblyomma hebraeum</u> larvae		
	East London, S. Africa		
	Rec'd 1906		
	Rec'd from Dr. Williamson		
N	1476	N	1476
		RML	110325
	<u>Amblyomma hebraeum</u> Larvae (gorged)		10 L <u>Amblyomma hebraeum</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	Raised in laboratory, Cambridge		Raised in laboratory, Cambridge (52.13 N, 00.08 E), England
	21.II.1906		21.II.1906
			Cited: Robinson (1926: 107).

<u>ORIGINAL DETERMINATION</u>			<u>CURRENT STATUS</u>		
N	1477		N	1477	MISSING
	<u>Amblyomma hebraeum</u> nymphs				
	Hedgehog				
	Raised in laboratory, Cambridge				
	21.II.1906				
N	1478		N	1478	
			RML	110326	
	<u>Amblyomma hebraeum</u> ♂			1 ♂ <u>Amblyomma hebraeum</u>	
	Hedgehog			<u>Erinaceus europaeus</u>	
	Raised in laboratory, Cambridge			Raised in laboratory, Cambridge (52.13 N, 00.08 E), England	
	21.II.1906			21.II.1906	
N	1479		N	1479	MISSING
	<u>Amblyomma hebraeum</u> ♀'s				
	Hedgehog				
	Raised in laboratory, Cambridge				
	21.II.1906				
N	1480		N	1480	MISSING
	<u>Amblyomma hebraeum</u> ♀'s				
	Hedgehog				
	Raised in laboratory, Cambridge				
	21.II.1906				
N	1481		N	1481	MISSING
	<u>Amblyomma hebraeum</u> ♂, ♀				
	No particulars				
	Rec'd. 1906				
	Rec'd. from Mr. E.G. Wheeler, Warwick				

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1482	N	1482
	<u>Amblyomma hebraeum</u> ♂, ♀	RML	110327
	No particulars		1 ♂, 1 ♀ <u>Amblyomma hebraeum</u>
	Rec'd 1906		No particulars
	Rec'd from Mr. E.G. Wheler Warwick		Rec'd 1906
			Rec'd from Mr. E.G. Wheler, Warwick
N	1483	N	1483 MISSING
	<u>Amblyomma hebraeum</u> larval skins		
	Raised in Cambridge		
	1906		
	Parents received from Mr. Lounsbury, Cape Colony, S. Africa, III.1906.		
N	1484	N	1484
	<u>Amblyomma hebraeum</u> gorged larvae	RML	110328
	Raised in Cambridge		364 L <u>Amblyomma hebraeum</u>
	1906		Raised in Cambridge (52.13 N, 00.08 E), England
	Parents received from Mr. Lounsbury, Cape Colony, S. Africa, III.1906		1906
			Parents received from Mr. Lounsbury, Cape Colony, S. Africa, III.1906
N	1485	N	1485 MISSING
	<u>Amblyomma hebraeum</u> gorged larvae		
	Raised in Cambridge		
	1906		
	Parents rec'd from Mr. Lounsbury, Cape Colony, South Africa, III.1906		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1486	N	1486 MISSING
<u>Amblyomma hebraeum</u> ♂, ♀			
Raised in Cambridge			
1906			
Parents received from Mr. Lounsbury, Cape Colony, S. Africa, III.1906			
1 ♀ to Dr.J.G. Parham, Portuguese East Africa, 18.IV.1913; 1 ♀ to N.Y. National Museum, 18.IV.1913; Some (sex/stage not stated) to Dr. Longin Navas, Zaragoza Spain, 28.V.1913			
N	1487	N	1487 MISSING
<u>Amblyomma hebraeum</u> ♀'s gorged			
East London, South Africa			
Rec'd 1.V.1905			
Rec'd from Dr. Williamson			
N	1488	N	1488
		RML	110329
<u>Amblyomma hebraeum</u> (½ gorged)		3 ♀ <u>Amblyomma hebraeum</u>	
East London, South Africa		East London (33.02 S, 27.55 E), Republic of South Africa	
Rec'd 1.V.1905		Rec'd 1.V.1905	
Rec'd from Dr. Williamson		Rec'd from Dr. Williamson	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1489	N	1489 MISSING
<u>Amblyomma hebraeum</u> ♀'s (gorged)			
East London, South Africa			
Rec'd 5.VI.1905			
Rec'd from Dr. Williamson			
N	1490	N	1490 MISSING
<u>Amblyomma hebraeum</u> nymphal skins			
Raised in Cambridge			
Rec'd 1.V.1905			
Rec'd from Dr. Williamson, E. London, South Africa			
N	1491	N	1491 MISSING
<u>Amblyomma hebraeum</u> ♂			
Pretoria, Transvaal, S. Africa			
Rec'd 1.VI.1908			
Rec'd from Dr. A. Theiler, Dept. of Agriculture			
N	1492	N	1492
		RML	110330
<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		7 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>	
Reared on cattle		Reared on Cattle	
Rosebank, S. Africa		Rosebank (33.57 S, 18.28 E), Republic of South Africa	
8.III.1905		8.III.1905	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1493	N	1493 MISSING
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		
	Cattle		
	Kuysna, Cape Colony, S. Africa		
	1901-1903		
	Vet-Surgeon Robinson		
N	1494	N	1494
		RML	110331
	<u>Rhipicephalus capensis</u> ♂'s		8 ♂ <u>Rhipicephalus capensis</u>
	Horse		Horse
	Douglas, near Kimberley, S. Africa		Douglas (29.04 S, 23.46 E), near Kimberley, Republic of South Africa
	X.1904		X.1904
	S. Orpen		S. Orpen
N	1495	N	1495
		RML	110332
	<u>Rhipicephalus nitens</u> ♂, ♀		1 ♂, 4 ♀ <u>Rhipicephalus nitens</u>
	Goats		Goats
	Stellenbosch, S. Africa		Stellenbosch (33.56 S, 18.51 E), Republic of South Africa
	XII.1902		XII.1902
			Three of the above 4 ♀ look a good deal like <u>R. supertritus</u> .

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1496	N	1496 MISSING
	<u>Amblyomma cajennense</u> ♀'s, N's		
	Jamaica		
	1902		
	Rec'd from Mr. E. G. Wheler, Warwick		
	Ticks received from Hon. N. C. Rothschild, M.A., Arundel House, Kensington Palace Gardens, London, W., 16 January 1912.		
N	1497	N	1497
		RML	110333
	<u>Dermacentor</u> sp. 1 N		1 N <u>Dermacentor albipictus</u>
	Moose		<u>Alces alces</u>
	New Brunswick, Canada		New Brunswick, Canada
	30.XI.1911		30.XI.1911
	J. Birrell		J. Birrell
N	1498	N	1498
		RML	110334
	<u>Dermacentor albipictus</u> 1 ♂		1 ♂ <u>Dermacentor albipictus</u>
	Man (Dr. Walker)		Man (Dr. Walker)
	New Brunswick, Canada		New Brunswick, Canada
	29.XI.1911		29.XI.1911
	J. Birrell		J. Birrell

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1499	N	1499
		RML	110335
	<u>Dermacentor albipictus</u> 2♂		2 ♂ <u>Dermacentor albipictus</u>
	Moose		<u>Alces alces</u>
	New Brunswick, Canada		New Brunswick, Canada
	30.XI.1911		30.XI.1911
	J. Birrell		J. Birrell
			Date on vial label is 30.XII.1911
N	1500	N	1500
		RML	110336
	<u>Dermacentor albipictus</u> 2 ♂, 2 ♀, 1 N		2 ♂, 1 ♀, 1 N <u>Dermacentor albipictus</u>
	Carabou		<u>Rangifer tarandus</u>
	New Brunswick, Canada		New Brunswick, Canada
	25.XI.1911		25.XI.1911
	J. Birrell		J. Birrell
N	1501	N	1501
		RML	110337
	<u>Dermacentor</u> sp. 1 N		1 N <u>Dermacentor albipictus</u>
	Carabou		<u>Rangifer tarandus</u>
	New Brunswick, Canada		New Brunswick, Canada
	25.XI.1911		25.XI.1911
	J. Birrell		J. Birrell

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1502	N	1502
	<u>Dermacentor</u> sp. 1 N	RML	110338
	Carabou		1 N <u>Dermacentor albipictus</u>
	New Brunswick, Canada		<u>Rangifer tarandus</u>
	25.XI.1911		New Brunswick, Canada
	J. Birrell		25.XI.1911
			J. Birrell
N	1503	N	1503
	<u>Dermacentor</u> sp. 1 ♂	RML	110339
	Carabou		5 N <u>Dermacentor albipictus</u>
	New Brunswick, Canada		<u>Rangifer tarandus</u>
	25.XI.1911		New Brunswick, Canada
	J. Birrell		25.XI.1911
	Lost?		J. Birrell
N	1504	N	1504
	<u>Ixodes hexagonus</u> 1 ♀	RML	110340
	Black cat		1 ♀ <u>Ixodes cookei</u>
	New Brunswick, Canada		Black cat
	19.XII.1911		New Brunswick, Canada
	J. Birrell		19.XII.1911
	[Not typical-bad condition; possibly <u>I. rubidus</u>]		J. Birrell
			Cited: Nuttall (1916: 328).

ORIGINAL DETERMINATIONCURRENT STATUS

Ticks received from Dr. S. T. Darling, Board of Health Laboratory, Ancon, Panama Canal Zone, 24 January 1912.

N 1505

N 1505 MISSING

Amblyomma cajennense 1 ♀

Man

Ancon, Canal Zone

XI.1911

S. T. Darling ("130")

N 1506

N 1506 MISSING

Argas persicus

From cracks and joints in doors
and trap nests of poultry house

Ancon, Canal Zone

XII.1911

S. T. Darling

N 1507

N 1507

RML 110341

Haemaphysalis leporis

1 ♀, 63 L Haemaphysalis leporis-
palustris (tentative ID)

Conejo (Dasyprocta sp.)

Dasyprocta punctata

Mataichin, Canal Zone

Mataichin, Canal Zone (locality not
verified)

29.IX.1911

29.IX.1911

S. T. Darling

S. T. Darling

The ♀ & larvae are in separate tubes.
Nuttall & Warburton (1915: 394)
incorrectly give the collection number
as N 1907.

Ticks received from the Indian Museum Calcutta, India (per Dr. N. Annandale)
23 January 1912. Determined by Mr. C. Warburton, as follows:

Hyalomma syriacum ♂'s, 1 ♀ off Testudo ibera Pall, Banias. Mt. Hermon, Palestine
(No. 1171)
17 Dr. J. Anderson coll.

Hyalomma syriacum ♂'s, ♀'s, off Testudo ibera, Pall, Banias. Mt. Hermon, Palestine
(No. 1172)
17 Dr. J. Anderson coll.

Hyalomma syriacum 1 ♂, off Testudo horsfieldi Gray, Jugdulluk, Afghanistan, India
Major Kinloch coll. (No. 1173)
14

Rhipicephalus sanguineus ♀'s, off jackal (Canis aureus), albino. Zoological Gardens
Calcutta (No. 1174)
17

Rhipicephalus haemaphysaloides 1 ♂, off ?, W. Slopes of Pegu Yomas (1,300 ft.),
Thayetmyo District, L. Burma, 4-8.XI.1911, C.J. Rogers (No. 1175)
17

Mites (Pteropus sp. & Gamasus sp.) off bats (Vesperugo tickelli Blyth), Balighai,
near Puri, Orissa. N. Annandale & F.H. Gravely coll. (No. 1176)
17

Amblyomma atrovenustum ♂, 1 ♀ & o, off Testudo elegans, near Shore, West Coast
of Ceylon. T. Southwell coll. (No. 1177)
17

Hyalomma syriacum 1 o, off "Man", Myawadi, Burmo-Siamese Frontier, Amherst District,
L. Burma. F.H. Gravely coll. (No. 1197)
17

Mites (Uropoda sp.) off long-tailed bat (Rhinopoma microphyllum), Damathut,
Guaing R., Amherst District, L. Burma. F.H. Gravely coll. (No. 1198)
17

Ornithodoros savignyi off?, Sheikh Othman, Aden, India. J.H. Ashworth coll.
(No. 981)
17

ORIGINAL DETERMINATIONCURRENT STATUS

N	1508	N	1508
		RML	110343
	<u>Argas brumpti</u> (10 specimens)		1 ♂, 7 N <u>Argas brumpti</u>
	Found "in the dust of an ant-hill where game rolled"		Found "in the dust of an anthill where game rolled"
	Kitui, British East Africa		Kitui (01.22 S, 38.01 E), Kenya
	I.1912		I.1912
	Dr. S. W. J. Scholefield		Dr. S. W. J. Scholefield
	Rec'd from Dr. P. H. Ross, Nairobi, B.E. Africa 1.II.1912		Vial label lists locality as Nairobi Kenya
N	1509	N	1509
		RML	66675
	<u>Rhipicephalus rossicus</u> 3 ♂, 2 ♀ Yakimoff, 1911		3 ♂, 2 ♀ <u>Rhipicephalus rossicus</u>
	Dogs		Dogs
	Saratow Government, Russia		Saratov (51.34 N, 46.02 E), USSR
	Presented 24.I.1912		Presented 24.I.1912
	Presented by Dr. W. L. Yakimoff		Presented by Dr. W. L. Yakimoff
N	1510	N	1510
		RML	110342
	<u>Hyalomma syriacum</u> 2 ♂'s		2 ♂ <u>Hyalomma aegyptium</u>
	<u>Testudo ibera</u> Pall		<u>Testudo graeca ibera</u>
	Banias, Mt. Hermon, Palestine		Hermon, Nahal (33.13 N, 35.38 E), Israel
	Dr. J. Anderson		Dr. J. Anderson
	[ex Indian Museum $\frac{1171}{17}$]		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1511

N 1511

RML 110344

Rhipicephalus sanguineus 2 ♀'s2 ♀ Rhipicephalus sanguineusAlbino jackal (Canis aureus)Canis aureus

Zoological Gardens, Calcutta

Zoological Gardens, Calcutta
(22.32 N, 88.22 E), India[ex. Indian Museum $\frac{1174}{17}$]

N 1512

N 1512

RML 110345

Amblyomma clypeolatum 5 ♂'s3 ♂ Amblyomma clypeolatumTestudo elegansGeochelone elegansWest Coast of Ceylon
(near shore)West Coast of Sri Lanka
(near shore)

T. Southwell

T. Southwell

[ex. Indian Museum $\frac{1177}{17}$]Cited: Robinson (1926: 81).
See also N 3608

N 1513

N 1513

RML 110346

Ornithodoros savignyi (2)1 ♂, 1 ♀ Ornithodoros savignyi

Sheikh Othman, Aden

Shaykh Uthman (12.52 N, 44.59 E),
Peoples Democratic Republic of Yemen

Dr. J. H. Ashworth

Dr. J. H. Ashworth

[ex. Indian Museum $\frac{981}{17}$]

Ticks received back from the Zoological Society's Gardens, London (per Dr. Chalmers Mitchell) being those wanted from Report I, 2 February 1912:-

N 1514

Aponomma pattoni ♂, ♀, N

Zamenis mucosus

Purch, India

31.X.1911

N 1514

RML 110347

2♂, 1♀, 1N Aponomma pattoni

Ptyas mucosus

India [The word Purch means purchased]

31.X.1911

Cited: Kaufmann (1972: 318)

N 1515

Amblyomma moreliae 1♂

Zamenis mucosus

Purch, India

31.X.1911

N 1515

RML 110348

1♂ Amblyomma sp.

Ptyas mucosus

India [The word Purch means purchased]

31.X.1911

N 1516

Aponomma gervaisi ♂'s, ♀'s

Lachesis lanceolatus

India

N 1516

RML 110349

1♂, 2♀ Aponomma gervaisi

Bothrops lanceolatus

India

1911

Date found on vial label.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1517

N 1517

RML 110350

Aponomma exornatum ♂'s, ♀'s1 ♂, 4 ♀ Aponomma exornatum

Off ?

Off ?

India

Locality unknown. The locality of India is incorrect.

? Date

? Date

N 1518

N 1518

RML 110351

Aponomma gervaisi var
lucasi ♂, ♀, n's2 ♂, 3 ♀, 5 N Aponomma varanensisNaja tripudiansNaja naja

India

India

Rec'd 13.VI.1911

Rec'd 13.VI.1911

N 1519

N 1519

RML 110352

Aponomma gervaisi var
lucasi ♂'s, ♀'s (very typical)4 ♂, 1 ♀ Aponomma varanensisNaja bungarusOphiophagus hannah

India

India

14.IX.1911

14.IX.1911

Cited: Santos Dias (1958: 518).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1520	N	1520
		RML	110353
	<u>Amblyomma moreliae</u> 1 ♀		1 ♀ <u>Amblyomma moreliae</u> (tentative ID)
	<u>Zamenis germonensis</u>		<u>Coluber genonensis</u>
	India		India
	15.VII.1911		15.VII.1911
			Because this is a zoo animal, there is a chance that exchange took place with an Australian species.
N	1521	N	1521
		RML	110354
	<u>Aponomma gervaisi</u> var <u>lucasi</u> ♂, ♀, N, L		4 ♂, 2 ♀, 2 N <u>Aponomma varanensis</u>
	<u>Naja tripudians</u>		<u>Naja naja</u>
	India		India
	11.VII.1911		11.VII.1911
N	1522	N	1522
		RML	110355
	<u>Amblyomma dissimile</u> ♂ & ♀		1 ♂, 1 ♀ <u>Amblyomma dissimile</u>
	<u>Boa constrictor</u>		<u>Boa constrictor</u>
	India		India
			1911
			Date found on vial label. The ♂ of this collection is <u>A. dissimile</u> , the ♀ is questionably <u>A. dissimile</u> . Either the locality of India is in error or the snake picked up this neotropical tick species in the London Zoo. See N 3609 for a similar case [J.E.K.].

ORIGINAL DETERMINATIONCURRENT STATUS

N 1523

N 1523

RML 110356

Amblyomma moreliae ♂1 ♂ Amblyomma sp.Boa constrictorBoa constrictor

India

India

N 1524

N 1524

RML 110357

Amblyomma diminutivum 1 ♀
(gorged)1 ♀ Amblyomma dissimileLachesis (Trimerisurus)
lanceolatusBothrops lanceolatus

S. America

S. America

21.III.1909

21.III.1909

Presented by Gordon Merriman,
Esq.

Presented by Gordon Merriman, Esq.

L. G. Neumann, det. 12.II.1912

Cited: Robinson (1926: 191)
but without Nuttall number

Ticks received from Dr. E. Brumpt, Laboratoire de Parasitologie, Paris, France, 5 February 1912 (He sent his collection of Haemaphysalis for purpose of study and allowed us to keep the following):-

ORIGINAL DETERMINATION

CURRENT STATUS

N	1525	N	1525
		RML	110358
	<u>Haemaphysalis inermis</u> 2 ♀ (unfed)		2 ♀ <u>Haemaphysalis inermis</u>
	Stag		Stag
	Fontainsbleau, France		Fontainebleau (48.24 N, 02.42), France
	End of XI.1910		End of XI.1910
	Dr. E. Brumpt		Dr. E. Brumpt
	[Lot comprised of 9 specimens]		Emile Brumpt (1877-1951), distinguished French Parasitologist, author of 376 scientific articles and the famous "Précis de Parasitologie." Cited: Nuttall & Warburton (1915: 367).
N	1526	N	1526 MISSING
	<u>Haemaphysalis inermis</u> 2 ♂, 3 ♀		
	Stag		
	Fontainsbleau, France		
	3.XI.1910		
	Dr. E. Brumpt		
	[Lot comprised 14 specimens]		
	Note in vial - 1 ♂ 1 ♀ removed		
	16.III.1937 GHFN; 1 ♂, 2 ♀		
	sent to Dr. R. A. Cooley of RML		
	by Mr. E. Browning 9.X.1945		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1527

Haemaphysalis inermis 1 ♂, 1 ♀

Stag

Fontainsbleau, France

16.XII.1911

Dr. E. Brumpt

[Lot comprised 6 specimens]

N 1527

RML 110359

1 ♂, 1 ♀ Haemaphysalis inermis

Stag

Fontainebleau (48.24 N, 02.42 E), France

16.XII.1911

Dr. E. Brumpt

Cited: Nuttall & Warburton (1915: 367).

N 1528

Haemaphysalis inermis 3 ♂

Stag

Fontainsbleau, France

7.XII.1911

Dr. E. Brumpt

[Lot comprised 52 specimens of which 10 preserved and 42 alive. Dr. Brumpt also captured 1 ♂ on stag at Fontainsbleau 24.I.1912 which we examined. His notes state that he did not find this tick on 4 deer skins from Chantilly, which he examined very carefully]

N 1528

RML 110360

3 ♂ Haemaphysalis inermis

Stag

Fontainebleau (48.24 N, 02.42 E), France

7.XII.1911

Dr. E. Brumpt

Cited: Nuttall & Warburton (1915: 367).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1529

N 1529

RML 110361

Haemaphysalis concinna 1 ♂1 ♂ Haemaphysalis concinna

Stag

Stag

Chantilly, France

Chantilly (49.12 N, 02.28 E), France

5.X.1910

5.X.1910

Dr. E. Brumpt

Dr. E. Brumpt

Found as one of four gorged nymphs, which moulted 15.XII.1910 (2 mos.), Dr. B. writes he found 64 gorged L & 15 gorged N on a hedgehog at Chantilly - they gave rise to 64 N & 15 adults (8 ♂, 7 ♀) respectively; but even after 2 months had elapsed he failed to make them feed on dog, hedgehog, mouse & cat. This partial raising experiment links up all the stages ♂, ♀, N, L as belonging to one species. He sent me specimens of each stage and in returning them (5.II.1912) I am asking him to describe the N & L.

Cited: Nuttall & Warburton (1915: 457).

ORIGINAL DETERMINATIONCURRENT STATUS

Ticks received for the collection here from Mr. F. C. Bishopp, Entomological Assistant, Dallas, Texas, 12 February 1912:

N 1530

Dermacentor albiguttatus

Horse

Lakeside, Washington, D.C.

12.IV.1910

F. C. Bishopp det [B1228]

N 1530

RML 59112

9 ♂, 9 ♀ Dermacentor albiguttatus

Horses

Lakeside (47.45 N, 120.00 W),
Washington, U.S.A.

12.IV.1910

L. D. Higley

Collector's name from Bishopp's accession card. 18 ♂, 1 ♀ of this collection deposited in RML. Fred Cory Bishopp (1884-1970). Worked with the U.S. Dept. of Agriculture from 1904-1953, pioneer researcher on ticks and other arthropods of medical-veterinary importance.

N 1531

Dermacentor nigrolineatus

♂'s, ♀'s
Cow

Lake, Tennessee

14.XI.1911

F. C. Bishopp det. [B2381]

N 1531

RML 59853

4 ♂, 3 ♀ Dermacentor albiguttatus

Cow

Lake, Fentress County (36.40 N,
85.00 W), Tennessee, U.S.A.

14.XI.1911

Ben R. Stockton

Collector's name from Bishopp's accession card. 2 ♂, 11 ♀ of this collection deposited in RML.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1532	N	1532
		RML	60628
	<u>Dermacentor occidentalis</u> ♂'s, ♀'s		7 ♂, 9 ♀ <u>Dermacentor occidentalis</u>
	Cattle		Cattle
	Cayucos, California		Cayucos (35.27 N, 120.54 W), California, U.S.A.
	27.IV.1910		27.IV.1910
	F. A. Bishopp det [B 1447]		P. Solmina
			Above total includes 1 ♂, 1 ♀ mounted on a slide
			Collectors name from Bishopp's accession card. 11♂, 18 ♀, 1 N of this collection deposited in RML
N	1533	N	1533
		RML	60740
	<u>Dermacentor parumapertus</u> var. <u>marginatus</u> ♂'s, ♀'s		9 ♂, 5 ♀ <u>Dermacentor parumapertus</u>
	Jack rabbit		<u>Lepus californicus</u>
	Midland, Texas		Midland (32.00 N, 102.05 W), Texas, U.S.A.
	16.VI.1909		16.VI.1909
	F. C. Bishopp		F. C. Bishopp
	F. C. Bishop det [B593]		The total given above includes 1 ♂, 1 ♀ mounted on a slide.
			43♂, 15 ♀ of this collection deposited in RML.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1534

Dermacentor venustus ♂'s, ♀'s

Horse

Lo Lo, Montana

8.IV.1910

F. C. Bishopp det. [B1214]

N 1534

RML 110362

7 ♂, 8 ♀ Dermacentor andersoni

Horses

LoLo (46.45 N, 114.03 W), Montana, U.S.A.

8-9.IV.1910

Frank Williams

Collector's name and date taken from
 Bishopp's accession card.
 The above total includes 1♀ pinned.

N 1535

Dermacentor venustus ♂'s, ♀'s

Horse

Riverside, Oregon

12.V.1911

F. C. Bishopp det. [B2256]

N 1535

RML 58945

6 ♂, 4 ♀ Dermacentor andersoni

Horses

Riverside (43.32 N, 118.09 W), Oregon,
U.S.A.

12-18.V.1911

Duncan McRae

Collector's name and date taken from
 Bishopp's accession card.
 8 ♂, 1 ♀ of this collection deposited
 in RML.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1536

N 1536

RML 57135

Dermacentor hunteri 3 ♂, 2 ♀3 ♂, 1 ♀ Dermacentor hunteri

Mountain sheep

Ovis canadensis

Quartzsite, Arizona

Quartzsite (33.40 N, 114.13 W),
Arizona, U.S.A.

20.VIII.1910

20.IX.1910

G. Hutson

George S. Hutson

F. C. Bishopp det [B2066]

Although D. hunteri was described by Bishopp from specimens collected on Ovis canadensis, Quartzsite, Arizona, George S. Hutson, the specimens listed above are not types. The types were collected 2.IX.1911 and were given Bishopp number 2352. 2 ♂ of this collection deposited in RML.

N 1537

N 1537

RML 56789

Ixodes banksi 1 ♀1 ♀ Ixodes banksi Paratype

Muskrat

Ondatra zibethicus

Monmouth Springs, Arkansas

Mammoth Spring (36.30 N, 91.33 W)
Arkansas, U.S.A.

14.VI.1910

14.VI.1910

A. H. Howell

F. C. Bishopp det [B1833]

Collectors name taken from Bishopp's accession card. Bishopp (1911: 200) original description; cited: Keirans & Clifford (1978: 142). 3 ♀ of this collection deposited in RML.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1538

N 1538

RML 49377

Ixodes cookei var. rugosus 2 ♀2 ♀ Ixodes rugosus

Dog

Dog

Rjsht (?) Washington, D.C.

Pysht (48.12 N, 124.07 W), Washington,
U.S.A.

17.III.1910

Guy Decker

F. C. Bishopp det [B2225]

1 ♀ of this collection deposited in RML.
Bishopp's accession cards show that he
considered B2225 to be part of B1071.
The ticks listed under B1071 were
collected on 17.III.1910 by Guy Decker.
See also Cooley & Kohls (1945: 123).
Nuttall's vial label lists the date
as 1911.

N 1539

N 1539

RML 110363

Ixodes kingi 1 ♂, 2 ♀1 ♂, 2 ♀ Ixodes kingi

Badger

Taxidea taxus

Fairview, New Mexico

Fairview, New Mexico, U.S.A.
(locality not verified)

? 1909

2.X.1909

E. A. Goldman

F. C. Bishopp det [B707]
(see lot listed by Bishopp,
1911).

Date and collector taken from
Bishopp's accession card.
Cited: Bishopp (1911:203);
Cooley & Kohls (1945: 135).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1540

N 1540

RML 110364

Rhipicephalus sanguineus ♂'s, ♀'s5 ♂ Rhipicephalus sanguineus

Dog

Dog

Chateau - Neuf, S. France

Chateaufeuf (43.40 N, 06.59 E),
France

1.IX.1911

1.IX.1911

Miss E. Barthès

Miss E. Barthès

(C. W. & G.H.F.N. det.)

N 1541

N 1541

RML 110365

Rhipicephalus sanguineus 1 ♀1 ♀ Rhipicephalus sanguineus

Rabbit

Rabbit

Bégude de Mazenc, Drôme,
S. FranceLa Bégude-de-Mazenc, (44.32 N,
04.56 E), France.

31.VIII.1911

31.VIII.1911

Miss E. Barthès

Miss E. Barthès

(C.W. & G.N. det.)

ORIGINAL DETERMINATIONCURRENT STATUS

N 1542, a, b

(1542) Ixodes caledonicus
 3 ♀, 7 N

(a) Ixodes caledonicus 2 larvae
 (gorged)

(b) Ixodes caledonicus 1 ♀
 deformed

Dovecote

Dunipace, Stirlingshire,
 Scotland

25.V.1911

Mr. Wm. Evans

Out of the same lot as 1295
 Presented 28.II.1912 (b) deformed
 showing anal groove closed as a
 ring: should serve as a prime
 warning not to found new species
 on a deformed specimen [figured
 & described] Note: Mr. Evans,
 20.II.1912 writes that he has
 given specimens of this lot of I.
caledonicus to Dr. Ashworth &
Reltie, and is sending others to
 Prof. L. G. Neumann, the Brit. Mus.,
 and Edinburgh Mus. G.H.F.N.
 1.III.1912.

N 1542, a, b

RML 110135

(1542) 3 ♀ 6 N Ixodes caledonicus

(a) 2 L Ixodes caledonicus

(b) 1 ♀ Ixodes caledonicus

Dovecote

Dunipace (56.01 N, 03.55 W),
 Stirlingshire, Scotland

25.V.1911

Mr. William Evans

N 1542(b) is in a jar marked "Tick
 Abnormalities" and has been described
 and figured by Nuttall (1914a: 251).

William Evans (1851-1922) died 23.X.1922
 aged 70, Editor of the Scottish
Naturalist, Fellow Royal Society
 Edinburgh.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1543

N 1543 MISSING

Ixodes ricinus 1 ♂

Man

Killarney, S. Ireland

9.IX.1911

G. Patrick

G.H.F.N. det.

Ticks received back from the Entomological Research Committee (ex Report No. 20), London, S.W., 3 March, 1911 per Mr. G.A.K. Marshall.

N 1544

N 1544

RML 110367

Amblyomma gemma ♂'s, ♀'s4 ♂, 3 ♀ Amblyomma gemma
2 ♂ Amblyomma lepidum

British East Africa

Kenya

R. J. Stordy

R. J. Stordy

ERC 416

N 1545

N 1545

RML 110368

Rhipicephalus pulchellus ♂'s, ♀'s3 ♂, 2 ♀ Rhipicephalus pulchellus

Desert country, B.E. Africa

Desert country, Kenya

? 1911

? 1911

R. J. Stordy

R. J. Stordy

ERC 419

ORIGINAL DETERMINATIONCURRENT STATUS

N	1546	N	1546
		RML	110369
	<u>Haemaphysalis hoodi</u> ♂, ♀		5 ♂, 4 ♀ <u>Haemaphysalis hoodi</u>
	Guinea-fowl		<u>Numida meleagris</u>
	Addah, Gold Coast		Ada (05.47 N, 00.38 E), Ghana
	15.X.1911		15.X.1911
	Dr. H. T. Palmer		Dr. H. T. Palmer
	ERC 422		Cited: Nuttall & Warburton (1915: 486).
N	1547	N	1547
		RML	110370
	<u>Aponomma exornatum</u> ♂, ♀, N		4 ♂, 4 N <u>Aponomma flavomaculatum</u>
	Monitor		Monitor
	Maiduguri, N. Nigeria		Maiduguri (11.51 N, 13.09 E), Nigeria
	3.IX.1911		3.IX.1911
	Dr. W. D. Inness		Dr. W. D. Inness
	ERC 407		
	1 ♂, 1 ♀ to I.C. Ross, University of Sydney, Australia		
N	1548	N	1548
		RML	110371
	<u>Amblyomma cohaerens</u> ♂'s, ♀'s		5 ♂, 1 ♀ <u>Amblyomma cohaerens</u>
	Uganda, Brit. East Africa		Uganda
	? 1911		? 1911
	Dr. C. H. Marshall		Dr. C. H. Marshall
	ERC 333		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1549	N	1549
		RML	110372
	<u>Amblyomma cohaerens</u> 1 ♂		1 ♂ <u>Amblyomma cohaerens</u>
	Buffalo		<u>Syncerus caffer</u>
	Uganda, B.E. Africa		Uganda
	1911		1911
	Dr. G. D. H. Carpenter		Dr. G. D. H. Carpenter
	ERC 420		Cited: Robinson (1926: 110).
N	1550	N	1550
		RML	66664
	<u>Ornithodoros savignyi</u>		1 ♂, 3 ♀, 16 N <u>Ornithodoros savignyi</u>
	Desert Country, B.E. Africa		Desert Country, Kenya
	1911		1911
	R. J. Stordy		R. J. Stordy
	ERC 419d		On the reverse of the vial label is "Nuttall 2011" which were raised in 1913 and evidently are progeny from this collection of ticks.
N	1551	N	1551
		RML	110373
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		6 ♂, 3 ♀ <u>Amblyomma cohaerens</u>
	British East Africa		Kenya
	? 1911		? 1911
	R. J. Stordy		R. J. Stordy
	ERC 417		Cited: Robinson (1926: 108)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1552	N	1552
		RML	110374
	<u>Amblyomma gemma</u> ♂'s, ♀'s		2 ♂, 1 ♀ <u>Amblyomma gemma</u>
	British East Africa		Kenya
	? 1911		? 1911
	R. J. Stordy		R. J. Stordy
	ERC 418		
N	1553	N	1553
		RML	66679
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		7 ♂, 5 ♀ <u>Rhipicephalus evertsi</u>
	Ponies		Ponies
	Maiduguri, N. Nigeria		Maiduguri (11.51 N, 13.09 E), Nigeria,
	IX.1911		IX.1911
	Dr. W. D. Inness		Dr. W. D. Inness
	ERC 402a		
N	1554	N	1554 MISSING
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		
	Donkey		
	Maiduguri, N. Nigeria		
	IX.1911		
	Dr. W. D. Inness		
	ERC 406C		
	1 ♂, 1 ♀ to Dr. K. F. Meyer,		
	U. of California, Berkeley,		
	15.XI.1913.		
	Some (sex/stage not stated) to		
	Prof. O. Duboscq, Montpellier,		
	France 10.II.1914		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1555 - This number was omitted from the Nuttall catalogue		
N	1556	N	1556
		RML	110144
	<u>Hyalomma aegyptium</u> ♂'s		9 ♂, 2 ♀ <u>Hyalomma marginatum</u>
	Hedgehog in laboratory, Cambridge		<u>Erinaceus europaeus</u> in laboratory, Cambridge
	Hamam - Meskoutine, Algeria		Hamam Meskoutine (36.27 N, 07.16 E), Algeria
	11.VI.1911		11.VI.1911
	M. P. Dechabert		M. P. Dechabert
	(Progeny of No. 1305a)		
N	1557	N	1557
		RML	110144
	<u>Hyalomma aegyptium</u> ♀'s		4 ♀ <u>Hyalomma marginatum</u>
	Hedgehog in laboratory, Cambridge		<u>Erinaceus europaeus</u> in laboratory, Cambridge
	Hamam - Meskoutine, Algeria		Hamam Meskoutine (36.27 N, 07.16 E), Algeria
	11.VI.1911		11.VI.1911
	M. P. Dechabert		M. P. Dechabert
	(Progeny of 1305a)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1558	N	1558
		RML	110144
	<u>Rhipicephalus bursa</u> ♂'s		93 ♂ <u>Rhipicephalus bursa</u>
	Ram at Field Laboratory Cambridge, 1912		Ram at Field Laboratory, Cambridge, 1912
	Hammam - Meskoutine, Algeria		Hammam Meskoutine (36.27 N, 07.16 E), Algeria
	11.VI.1911		11.VI.1911
	M. P. Dechabert		M. P. Dechabert
	(Progeny of 1305b)		An additional ♂ is in the BMNH collection (1913.2.12.22-24).
N	1559	N	1559
		RML	110144
	<u>Rhipicephalus bursa</u> ♀'s		157 ♀ <u>Rhipicephalus bursa</u>
	Ram at Field Laboratory, Cambridge, 1912		Ram at Field Laboratory, Cambridge, 1912
	Hammam - Meskoutine, Algeria		Hammam Meskoutine (36.27 N, 07.16 E), Algeria
	11.VI.1911		11.VI.1911
	M. P. Dechabert		M. P. Dechabert
	(Progeny of 1305b)		
N	1560	N	1560
		RML	110366
	<u>Ixodes ricinus</u> ♂, ♀, N, L		10 ♀, 67 N <u>Ixodes ricinus</u>
	Deer (dying)		Deer (dying)
	Lord Falmouth's Estate, Falmouth, Cornwall		Lord Falmouth's Estate, Falmouth (50.09 N, 05.05 W), Cornwall, England
	6.III.1912		6.III.1912
	Skin received 4.III.1912		Label in vial "N & L removed." Cited: Nuttall (1916: 331).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1561

N 1561

RML 110375

Argas persicus gorged L's &
1st stage N's226 L & 1st stage N Argas persicus

Raised in the Quick Laboratory,
Cambridge, 1912 by Dr. E. Hindle.
Parents received from Beni-Ounif,
Algeria

Raised in the Quick Laboratory,
Cambridge, 1912 by Dr. E. Hindle.
Parents received from Beni Ounif
(32.03 N, 01.15 W), Algeria

1 N, L's to Prof. Dr. Dahl,
Berlin Museum VII.1914;
1 N, L's to Prof. Dr. Schenkling,
Deutsches Entomol. Mus. VII.1914;
1 N, L's to Prof. Dr. Gestro, Museo
Civico di Storia Nat. di Genova
VII.1914.

See also Nuttall 1574

Edward Hindle (1886-1973) Sc. D.,
F.R.S. died III.1973 at 86.
Eminent Parasitologist and Zoologist,
Nuttall influenced Hindle's scientific
development, worked on spirochaetes
and piroplasms causing human relapsing
fever and East Coast Fever. After
WWI, Hindle worked as Professor of
Biology, School of Medicine, Cairo,
later was on the Kala-Azar Commission
to China.

N 1562

N 1562

RML 110376

Rhipicephalus shipleyi ♀1 ♀ Rhipicephalus simus
SYNTYPES of R. shipleyiHyaena sp.Hyaena sp.

Sudan

Sudan

=R. simus shipleyi (Nn)Neumann (1902: 112, 113) original
description.♀ vulva removed and mounted on a
slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1563, a

N 1563, a

RML 22300

Haemaphysalis papuana many
 ♂'s, 2 ♀, 2 N (gorged) &
 2 L (gorged)
 (a) 1 N Haemaphysalis konings-
bergeri

23 ♂, 2 ♀, 1 L Haemaphysalis papuana

(a) 1 N Haemaphysalis papuana
 (tentative ID)

Malayan Honey-Bear (Ursus
malayanus)

Helarctos malayanus

Kuching, Sarawak, Borneo

Kuching (01.33 N, 110.20 E), Sarawak

8.II.1912

8.II.1912

J. C. Moulton (Curator of
 the Museum)

J. C. Moulton (Curator of the Museum)

13.III.1912 (Sent Mr. Moulton
 3 ♂, 1 ♀, & 1 N of this
 species, at his request, on
 11 May, 1912).

Cited and larva figured: Nuttall &
 Warburton (1915: 407);
 Trapido et al (1964: 178) list
 24 ♂ in this collection.

Three slides of dissections present:
 ♂ Hypostome, ♂ spiracular plate,
 ♂ legs I & IV.

John Coney Moulton (1886-1926) O.B.E.,
 Curator of Sarawak Museum 1909-1914,
 served in WWI, then Director of
 Raffles Museum and Library, Singapore
 1919-1923; from 1923 till his death
 Secretary to the Rajah of Sarawak;
 worked extensively on Malaysian
 Cicadidae.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1564	N	1564
		RML	110377
	<u>Haemaphysalis punctata</u> ♂'s, ♀'s		153 ♂, 21 ♀ <u>Haemaphysalis punctata</u>
	Sheep		Sheep
	Lydd, Kent		Lydd (50.57 N, 00.55 E), Kent, England
	4.IV.1905		4.IV.1905
	Received dead 1 ♂, 1 ♀ to Prof. E. Brumpt, Ecole Medicine, Paris, 12.X.1922		Cited: Nuttall & Warburton (1915: 384).
N	1565, a	N	1565, a
		RML	110378
	<u>Haemaphysalis punctata</u> ♀'s (a) <u>Haemaphysalis punctata</u> ♀'s		2 ♀ <u>Haemaphysalis punctata</u> (a) 7 ♀ <u>Haemaphysalis punctata</u>
	Sheep		Sheep
	Herne, Kent		Herne (51.20 N, 01.08 E), Kent, England
	4.IV.1905 (a) 15.IV.1905		4.IV.1905 (a) 15.IV.1905
	Messrs. Cooper & Nephews, Berkhamsted (a) Mr. Collard per Messrs. Cooper & Nephew, Berkhamsted		Messrs. Cooper & Nephews, Berkhamsted (a) Mr. Collard per Messrs. Cooper & Nephew, Berkhamsted
			Cited: Nuttall & Warburton (1915: 384).
	Ticks received for identification from Mr. L. Armstrong (per Mr. G. Merriman), British Museum (Nat. Hist.), Cromwell Road, London, S.H., 11. March, 1912:-		
	<u>Apon. laeve</u> ♀'s, off <u>snake</u> , Aburi, 5.IV.1911 [snake had large adult female bat inside.].		
	<u>Ixodes rarus</u> ♀, 2 N & L's, off (♂) <u>ground pig</u> , Aburi, 1.III.1911.		
	<u>Ixodes pilosus</u> ♀, off top of <u>cat's head</u> , Aburi, I.1911.		
	<u>Haem. leachi</u> ♀ off top of <u>cat's head</u> , Aburi, I.1911.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1566

Haemaphysalis inermis var.
aponommoides n.sp. ♀'s

Himalayan zebus

Belgachia, Calcutta, India

Rec'd 13.III.1912

Rec'd from Colonel F. Raymond,
F.R.C.V.S., Principal,
Bengal Veterinary College

N 1567

Boophilus australis ♀'s

Himalayan zebus

Belgachia, Calcutta, India

Rec'd 13.III.1912

Rec'd. from Colonel F. Raymond,
F.R.C.V.S., Principal,
Bengal Veterinary College

N 1566

RML 110379

20 ♀ Haemaphysalis aponommoides
Lectotype and paralectotypes

Himalayan zebus

Belgachia, Calcutta (22.32 N, 88.22 E),
India

Rec'd 13.III. 1912

Rec'd from Colonel F. Raymond,
F.R.C.V.S., Principal,
Bengal Veterinary College

Warburton (1913: 128) original
description; Nuttall & Warburton
(1915: 549) listed 23 ♀ in the
BMNH collection; Hoogstraal
(1962a: 195) raised H. aponommoides
to specific rank; Moritz & Fischer
(1981: 343). Lectotype designated:
Keirans & Brewster (1981: 162) but
due to a typographical error the ♂
symbol was inserted after the word
lectotype.

N 1567 MISSING

Ticks received from the Indian Museum, Calcutta, India (per Dr. N. Annandale), March, 1912. Determined by Mr. C. Warburton, as follows:-

<u>Haemaphysalis</u> 1 N,	off large, bushy-tailed <u>tree-shrew</u>		
<u>Amblyomma</u>	(<u>Tupaia chinensis</u>), Kobo, (Alt. 400 ft.),		
2 N's of one sp.	9.XII.1911. S. W. Kemp.	Indian Mus.	1200
1 N of another	(Abor. Expedition)		17
<u>Amb. testudinarium</u>	♂'s ♀'s off wild pig (<u>Sus cristatus</u>),		
	Kobo, 5.XII.1911. S. W. Kemp.	Indian Mus.	1201
	(Abor. Expedition)		17
<u>Haem. bispinosa</u>	♂, found "by sweeping," Dibrugarh, Indian Mus.		1202
	N. E. Assam, 17-21.XI.1911 S.W. Kemp		17
<u>Amb. testudinarium</u>	2 ♂s, found "by sweeping," Kobo,		
	3.XII.1911. (Abor. Expedition)	Indian Mus.	1203
	S. W. Kemp		17
Gamasid mites	off <u>Houbara macqueenii</u> killed in		
	desert, Bhawalnagar, Bhawalpore	Indian Mus.	1204
	State, Punjab, ?1911 Col. Phillot		17

ORIGINAL DETERMINATIONCURRENT STATUS

N 1568

N 1568

RML 110380

Amblyomma testudinarium 1 ♂,
6 ♀'s1 ♂, 5 ♀ Amblyomma testudinariumWild pig (Sus cristatus)Sus scrofa cristatus

Kobo, India

Kobo (27.47 N, 95.23 E), India

5.XII.1911

5.XII.1911

S. W. Kemp

S. W. Kemp

(Abor Expedition)

Cited: Robinson (1926: 257).

[Ex. Indian Mus. 1201]
17

Two additional tubes of ticks received from the Indian Museum, Calcutta, India (per Dr. Annandale) March, 1912. Determined by Mr. Warburton, as follows:

Argas persicus (1), from Quetta, Baluchistan, India, 1912.
Major Stammers, R.A.M.C.

"A"

Orn. tholozani 1 nymph, from Quetta, Baluchistan, India, 1912.
Major Stammers, R.A.M.C.

"B"

Ticks received from Professor W. B. Herms, Entomological Dept. Univ. of California, Berkeley, Cal., U.S. America, 18 March 1912. Determinations etc., as follows:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1569	N	1569
		RML	110381
	<u>Ornithodoros megnini</u> (15 specimens)		9 N <u>Otobius megnini</u>
	Cattle		Cattle
	California, U.S.A.		California, U.S.A.
	I.1912		I.1912
	W. B. Herms		W. B. Herms
	["Ear ticks"]		Original vial label lists 15 specimens; a small second label lists "only 9 left 20.X.1934"
			William Brodbeck Herms (1876-1949) Professor of Parasitology, University of California, Berkeley, died 9.V.1949 at 72. Leader in the field of Medical Entomology and author of the foremost textbook on that subject during his lifetime.
N	1570, a	N	1570, a
		RML	110382
	(1570) <u>Dermacentor occidentalis</u> 1 ♂, 1 ♀		(1570) 1 ♂, 1 ♀ <u>Dermacentor occidentalis</u>
	(a) <u>Ixodes ricinus</u> ♂ & ♀ (in copula), ♀		(a) 1 ♂, 2 ♀ <u>Ixodes pacificus</u>
	<u>Odocoileus columbianus</u>		<u>Odocoileus hemionus</u>
	Berkeley, California, U.S. America		Berkeley (37.57 N, 122.18 W), California, U.S.A.
	1912		1912
	F. C. Clark		F. C. Clark
			Cited: Nuttall (1916: 333).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1571

Argas vespertilionis

1 ♀, 2 N, 1 L

Bats (sp. ?)

French Soudan

1911

Dr. Bouet

(Presented by Prof. L. G.
Neumann, III.1912)

N 1571

RML 110383

1 ♂, 1 ♀, 1 N, 1 L Argas boueti

Bats (sp. ?)

Sudan

1911

Dr. Bouet

The 1 L is in a separate vial.

N 1572

Rhipicephalus maculatus ♂'s, ♀'s

Grasses

Masongalini, Uganda Railway,
B.E. Africa

29.III-1.IV.1911

S. A. Neave

(E.R.C. 263)

N 1572

RML 66579

5 ♂, 5 ♀ Rhipicephalus maculatus

Grasses

Masongaleni (02.29 S, 38.03 E),
Kenya

29.III-1.IV.1911

S. A. Neave

There is a second collection bearing
the catalogue number N 1572 with the
following data and ticks:
Indian Mus. $\frac{TM}{2}$ 1 ♂ 1 ♀ Rhipicephalus haemaphysaloides

Shai Kara Nayara, India

Sheep, XII.1910. This collection
refers to N 1406 but the number is
unmistakably N 1572.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1573	N	1573
		RML	110384
	<u>Rhipicephalus maculatus</u> ♂'s, ♀'s		8 ♂, 11 ♀ <u>Rhipicephalus maculatus</u>
	Grasses		Grasses
	Mtito Andei, Uganda Railway, B.E. Africa		Mtito Andei (02.41 S, 38.10 E), Kenya
	27.III.1911		27.III.1911
	S. A. Neave		S. A. Neave
	(E.R.C. 264c)		
	1 ♂, 1 ♀ to J. De Meza, Zomba, Nyasaland 19.II.1916		
N	1574, a-c	N	1574, a, b
		RML	110375
	(1574) <u>Argas persicus</u> larvae (unfed)		(1574) 56 L <u>Argas persicus</u>
	(a) <u>Argas persicus</u> larvae (gorged)		(a) 6 L <u>Argas persicus</u>
	(b) <u>Argas persicus</u> 1st stage N's		(b) 13 N <u>Argas persicus</u>
	(c) <u>Argas persicus</u> N's & adults Raised in Cambridge		(c) MISSING
	Beni Ounif, Algeria		Beni Ounif (32.03 N, 01.15 W), Algeria
	Presented 27.III.1912		Presented 27.III.1912
	Presented by Dr. E. Hindle		Presented by Dr. E. Hindle
			See also Nuttall 1561

ORIGINAL DETERMINATIONCURRENT STATUS

N	1575	N	1575
		RML	110385
	<u>Ornithodoros savignyi</u> (alive)		23 ♂, 12 ♀, 532 N <u>Ornithodoros savignyi</u>
	Aden, India		Peoples Democratic Republic of Yemen
	Rec'd VII.1911		Rec'd VII.1911
	Rec'd from Dr. J. H. Ashworth, Edinburgh		Rec'd from Dr. J. H. Ashworth, Edinburgh
	[Used for raising experiments].		Collection in two vials.
	1 ♂, 1 ♀, N's to Prof. Dr. Dahl, Berlin Museum, VII.1914.		
	1 ♂, 1 ♀, N's to Prof. Dr. Schenkling, Deutsches Entomol. Museum, VII.1914.		
	1 ♂, 1 ♀, N's to Dr. R. Gestro, Museo Civico di Storia Nat. Genova, VII.1914.		
	All stages to Prof. R. Matheson, Cornell, 27.V.1929.		
	All stages to Dr. A. C. Reed, San Francisco, 30.V.1929.		
	All stages to Prof. J. Drbohlav, Prague, 30.V.1929.		
	Different stages to Prof. E. Malvoz, Liege, 30.V.1929.		
N	1576	N	1576
		RML	66622
	<u>Ixodes ricinus</u> ♂, ♀, N, L (unfed)		71 N, 1 L <u>Ixodes ricinus</u>
	Grass in deer park		Grass in deer park
	Tregothnan near Truro, Cornwall		Tregothnan, near Truro (50.16 N, 05.03 W), Cornwall, England
	17.IV.1912		17.IV.1912
	G.H.F. Nuttall coll. & det.		G.H.F. Nuttall coll. & det.
	1 ♂, 1 N to J. de Meza, Zomba, Nyasaland 19.II.1916		Cited: Nuttall (1916; 332).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1577

N 1577

RML 110386

Ixodes ricinus N, L39 N Ixodes ricinus

Wild rabbit (ears and eyelids)

Wild rabbit (ears and eyelids)

Tregothnan, near Truro, Cornwall

Tregothnan, near Truro (50.16 N,
05.03 W), Cornwall, England

17.IV.1912

17.IV.1912

G.H.F. Nuttall coll. & det.

G.H.F. Nuttall coll. & det.

Vial label date is 7.IV.1912.
Nuttall (1916: 332) incorrectly cited
this collection as N 1677.

Ticks received back from the Entomological Research Committee (Tropical
Africa), London S.W. Ex. Report 21, April, 1912:-

N 1578

N 1578

RML 110387

Amblyomma splendidum ♂'s, ♀'s8 ♂, 3 ♀ Amblyomma splendidum

Buffalo

Syncerus caffer

Portuguese Congo, Africa

Angola

1911

1911

M. Gamble

M. Gamble

E.R.C. 425

Cited: Robinson (1926: 125).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1579

N 1579

RML 110388

Argas brumpti1 ♀, 6 N Argas brumpti

Found in ant-heaps

Found in ant-heaps

Yatta Plains, Ukamba,
B.E. AfricaYatta Plains (01.11 S, 37.33 E),
Kenya

1911

1911

S.W.J. Scholefield

S.W.J. Scholefield

E.R.C. 429

N 1580

N 1580

RML 110389

Ornithodoros moubata2 ♂, 2 ♀, 2 N Ornithodoros moubataNairobi, E. African
Protectorate

Nairobi (01.17 S, 36.49 E), Kenya

Rec'd 1912

Rec'd 1912

Laboratory Staff

Laboratory Staff

E.R.C. 430

Rec'd from Principal Medical
Officer

ORIGINAL DETERMINATIONCURRENT STATUS

N 1581

N 1581

RML 110390

Rhipicephalus appendiculatus
♂ (abnormal)1 ♂ Rhipicephalus appendiculatus

Cattle

Cattle

Nbarra, Ankole, Uganda,
B.E. AfricaNbarra, District of Ankole (00.30 S,
30.30 E), Uganda

I.1911

I.1911

Dr. C. H. Marshall

Dr. C. H. Marshall

E.R.C. 433

This specimen is in a jar marked
"Tick abnormalities".
Two notes in the vial
Not worth describing.
Not worth figuring.

N 1582

N 1582

RML 110391

Amblyomma cohaerens ♂'s, ♀'s, 1 N16 ♂, 6 ♀ Amblyomma cohaerens

Buffalo

Syncerus cafferSemliki Plains, near S. Shore
of Lake Albert, Belgian Congo,
B.E. AfricaSemliki Plains, near S. Shore of Lake
Albert (01.40 N, 31.00 E), Zaire

XI.1911

XI.1911

S.A. Neave

S. A. Neave

E.R.C. 434

Cited: Robinson (1926: 110).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1583

N 1583

RML 110392

Amblyomma cohaerens ♂'s8 ♂ Amblyomma cohaerens

Buffalo

Syncerus cafferSemliki Plains, near S. shore
of Lake Albert, Belgian Congo,
B.E. AfricaSemliki Plains, near S. shore of
Lake Albert (01.40 N, 31.00 E),
Zaire

XI.1911

XI.1911

S. A. Neave

S. A. Neave

E.R.C. 435

Cited: Robinson (1926: 110).

N 1584

N 1584

RML 110391

Amblyomma cohaerens ♂'s, ♀'s, 1 N12 ♂, 5 ♀, 1 N Amblyomma cohaerens

Buffalo

Syncerus cafferSemliki Plains, near S. shore
of Lake Albert, Belgian Congo,
B.E. AfricaSemliki Plains, near S. shore of
Lake Albert (01.40 N, 31.00 E),
Zaire

XI.1911

XI.1911

S. A. Neave

S. A. Neave

E.R.C. 434

The E.R.C. number of this collection is
identical with that of Nuttall 1582.
Cited: Robinson (1926: 110).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1585	N	1585 MISSING
	<u>Ornithodoros moubata</u>		
	From Senior Medical Officer's boys' house		
	Entebbe, Uganda, B.E. Africa		
	? 1908		
	E.R.C. 437		
N	1586	N	1586
		RML	110393
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		4 ♂, 6 ♀ <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Botanical Gardens, Entebbe, Uganda, B.E. Africa		Botanical Gardens, Entebbe (00.04 N, 32.28 E), Uganda
	16.IX.1911		16.IX.1911
	Dr. G. C. Strathairn		Dr. G. C. Strathairn
	E.R.C. 438		
N	1587	N	1587
		RML	110394
	<u>Rhipicephalus falcatus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Rhipicephalus senegalensis</u>
	No data		No data
	Dr. J.E.S. 01d		Dr. J.E.S. 01d
	E.R.C. 441a		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1588	N	1588
		RML	110395
	<u>Rhipicentor bicornis</u> ♂, ♀		1 ♂, 1 ♀ <u>Rhipicentor bicornis</u>
	Bull eland		♂ <u>Taurotragus oryx</u>
	Ruo, Portuguese Nyasaland, B.C. Africa		Perhaps vicinity of Ruo Basin (15.54 S, 35.39 E), Malawi
	19.VIII.1911		19.VIII.1911
	Dr. J.E.S. Old		Dr. J.E.S. Old
	E.R.C. 449e		
N	1589	N	1589
		RML	110396
	<u>Amblyomma</u> sp. larvae		35 L <u>Amblyomma</u> sp.
	Goat		Goat
	Blantyre, Nyasaland, B.E. Africa		Blantyre (15.47 S, 35.00 E), Malawi
	19.V.1910		19.V.1910
	Dr. J.E.S. Old		Dr. J.E.S. Old
	E.R.C. 453		
N	1590	N	1590
		RML	110397
	<u>Rhipicephalus supertritus</u> 1 ♂		1 ♂ <u>Rhipicephalus supertritus</u>
	No data		No data
	Dr. J.E.S. Old		Dr. J.E.S. Old
	E.R.C. 449a		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1591

Ixodes hexagonus 1 ♀

Portugal

Rec'd IV.1912

Dr. Carlos Franca

N 1591

RML 110398

1 ♀ Ixodes hexagonus

Portugal

Rec'd IV.1912

Dr. Carlos Franca

Cited: Nuttall (1916: 328).

N 1592

Rhipicephalus bursa 2 ♀

Cattle

Portugal

Rec'd IV.1912

Rec'd from Dr. C. Franca

N 1592

RML 110399

2 ♀ Rhipicephalus bursa

Cattle

Portugal

Rec'd IV.1912

Rec'd from Dr. C. Franca

There is a cotype label in the vial with these ticks. One ♀ vulva has been removed and mounted on a slide.

N 1593

Hyalomma aegyptium 1 ♂, 1 ♀

Cattle

Portugal

Rec'd IV.1912

Rec'd from Dr. C. Franca

N 1593

RML 110400

1 ♂, 1 ♀ Hyalomma marginatum

Cattle

Portugal

Rec'd IV.1912

Rec'd from Dr. C. Franca

Ticks taken out of the collection of the School of Tropical Medicine,
The University, Liverpool. Received from Professor R. Newstead, 24 April 1912.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1594	N	1594
		RML	110401
	<u>Ixodes vespertilionis</u> 1 ♀		1 ♀ <u>Ixodes vespertilionis</u>
	Lesser horse-shoe bat (<u>R. hipposideros</u>)		<u>Rhinolophus hipposideros</u>
	In caves, Cefn, N. Wales		Cefn Caves, Cefn-y-Bedd (53.05 N, 03.02 W), Wales
	4.IV.1896		4.IV.1896
	R. Newstead		R. Newstead Cited: Nuttall (1916: 334)
N	1595	N	1595
		RML	110402
	<u>Hyalomma syriacum</u> ♂'s, ♀'s		4 ♂, 3 ♀ <u>Hyalomma aegyptium</u>
	Tortoise (Magador)		Tortoise (Magador)
	Cross' Menagerie, Liverpool		Cross' Menagerie, Liverpool (53.25 N, 03.00 W), England
	1905		1905
N	1596	N	1596
		RML	110403
	<u>Boophilus annulatus</u> 1 ♂ (deformed)		1 ♂ <u>Boophilus annulatus</u>
	Boston, U.S. America		Perhaps Boston (30.47 N, 83.47 W), Georgia, U.S.A.
	T.F.R.		Described and figured by Nuttall (1914a: 255) who gave the locality as Boston, Massachusetts. However, that locality is far from the range of <u>B. annulatus</u> .

ORIGINAL DETERMINATIONCURRENT STATUS

N	1597	N	1597
		RML	110404
	<u>Amblyomma dissimile</u> 3 ♀		3 ♂ <u>Amblyomma dissimile</u>
	Toad		Toad
	British Guiana		Guyana
	1905		1905
	Dr. K. S. Wise		Dr. K. S. Wise
			Cited: Robinson (1926: 167)..
N	1598	N	1598
		RML	110405
	<u>Amblyomma dissimile</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Amblyomma dissimile</u>
	"Salapenter"		"Salapenter"
	British Guiana		Guyana
	1909		1909
	Dr. K. S. Wise		Dr. K. S. Wise
			Cited: Robinson (1926: 167).
N	1599	N	1599
		RML	110406
	<u>Amblyomma dissimile</u> 1 ♂		1 ♂ <u>Amblyomma dissimile</u>
	Lizard		Lizard
	West Indies		West Indies
	1907		1907
	H. A. Ballou		H. A. Ballou
			Cited: Robinson (1926: 167).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1600	N	1600
		RML	110407
	<u>Rhipicephalus neavei</u> 3 ♂, 3 ♀		3 ♂, 3 ♀ <u>Rhipicephalus kochi</u>
	Newala antelope		<u>Tragelaphus angasi</u>
	Upper Shire River, British C. Africa		Upper Shire River (15.04 S, 35.13 E), Malawi
	27.IX.1911		27.IX.1911
	J. B. Davey		J. B. Davey
N	1601	N	1601
		RML	110408
	<u>Ixodes cavipalpus</u> ♂, ♀ (in copula)		1 ♂, 1 ♀ <u>Ixodes cavipalpus</u>
	Cattle		Cattle
	Mwiniwerynig Village, Sekwa River, N. Nyasa, B. C. Africa		Mwiniwerynig Village, Sekwa River (10.05 S, 33.35 E), Malawi
	13.II.1909		13.II.1909
	J. B. Davey		J. B. Davey Cited: Nuttall (1916: 327).
N	1602	N	1602
		RML	110409
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s		3 ♂, 3 ♀ <u>Rhipicephalus kochi</u>
	Newala antelope		<u>Tragelaphus angasi</u>
	Upper Shire River, Brit. C. Africa		Upper Shire River (15.04 S, 35.13 E), Malawi
	3.VIII.1911		3.VIII.1911
	J. B. Davey		J. B. Davey

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1603	N	1603
	<u>Amblyomma tholloni</u> ♂'s, ♀'s	RML	110410
	Elephant		4 ♂, 4 ♀ <u>Amblyomma tholloni</u>
	Lake Albert, Uganda, B.E. Africa		<u>Loxodonta africana</u>
	1905		Lake Albert (01.50 N, 31.00 E) Uganda
	Dr. Christy		1905
			Dr. Christy
			Cited: Robinson (1926: 252).
N	1604	N	1604
	<u>Aponomma exornatum</u> ♂'s, ♀'s, N's	RML	110411
	<u>Varanus niloticus</u>		7 ♂, 5 ♀, 4 N <u>Aponomma flavomaculatum</u>
	St. Louis, Senegal, W. Africa		<u>Varanus niloticus</u>
	24.I.1906		Saint Louis (16.02 N, 16.30 W), Senegal
	1 ♂, 1 ♀ to Dr. Kudicke, Dar es Salaam G.E.A. 22.VII.1914		24.I.1906
			Slides missing
N	1605	N	1605
	<u>Boophilus decoloratus</u> ♂	RML	110412
	Kudu		1 ♂ <u>Boophilus decoloratus</u>
	Mombiras near Karonga, N. Nyasa, B.C. Africa		<u>Tragelaphus strepsiceros</u>
	25.II.1908		Mombiras near Karonga (09.56 S, 33.56 E) Malawi
	J. B. Davey		25.II.1908
			J. B. Davey
			This specimen is in a jar marked "Tick Abnormalities"
			Two notes in vial
			"Not worth describing"
			"Not worth figuring"

ORIGINAL DETERMINATION

N 1606

Rhipicephalus capensis ♂'s, ♀

Cattle

Nyangwe, Belgian Congo, Africa

15.XI.1904

N 1607

Amblyomma cohaerens 2 ♂

Buffalo

Lake Albert, Uganda, B.E.
Africa

VII.1905

Dr. Christy

N 1608

Rhipicephalus lunulatus 4 ♂, 2 ♀

Bush-pigs

Kaporo, near Sangwe, N. Nyasa,
B. C. Africa

6.I.1909

Dr. J. B. Davey

CURRENT STATUS

N 1606

RML 110413

5 ♂, 1 ♀ Rhipicephalus compositus

Cattle

Nyangwe (04.13 S, 26.11 E), Zaire

15.XI.1904

N 1607

RML 110414

2 ♂ Amblyomma cohaerens

Syncerus caffer

Lake Albert (01.50 N, 31.00 E),
Uganda

VII.1905

Dr. Christy

Cited: Robinson (1926: 110).

N 1608

RML 110415

4 ♂, 2 ♀ Rhipicephalus lunulatus

Potamochoerus porcus

Kaporo (09.45 S, 33.55 E) near
Sangwe River, Malawi

6.I.1909

Dr. J. B. Davey

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1609	N	1609
		RML	110416
	<u>Rhipicephalus falcatus</u> 2 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u> 1 ♂ <u>Rhipicephalus gertrudae</u>
	Bush pigs		<u>Potamochoerus porcus</u>
	Kaporo, near Sangwe, N. Nyasa, B.C. Africa		Kaporo (09.45 S, 33.55 E) near Sangwe River, Malawi
	6.I.1909		6.I.1909
	Dr. J. B. Davey		Dr. J. B. Davey
N	1610	N	1610
		RML	110417
	<u>Amblyomma splendidum</u> ♂'s, ♀'s		17 ♂, 4 ♀ <u>Amblyomma splendidum</u>
	Buffalo		<u>Syncerus caffer</u>
	Tshumbiri, Congo Free State, Africa		Tshumbiri (02.39 S, 16.14 E), Zaire
	?1909		?1909
			Cited: Robinson (1926: 125).
N	1611	N	1611
		RML	110418
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s N's		103 ♂, 32 ♀, 12 N <u>Rhipicephalus</u> <u>appendiculatus</u>
	Grass		Grass
	Nwangopwani District, Zanzibar, Africa		Nwangopwani District, Zanzibar Island (06.10 S, 39.20 E), Tanzania
	1905		1905
	Mr. Last		Mr. Last

ORIGINAL DETERMINATIONCURRENT STATUS

N	1612	N	1612
		RML	110419
	<u>Rhipicephalus evertsi</u> 4 ♂, 2 ♀		4 ♂, 2 ♀ <u>Rhipicephalus evertsi</u>
	Grass		Grass
	Nwangopwani District, Zanzibar, Africa		Nwangopwani District, Zanzibar Island (06.10 S, 39.20 E), Tanzania
	1905		1905
	Mr. Last		Mr. Last
N	1613	N	1613
		RML	110420
	<u>Rhipicephalus falcatus</u> 3 ♂, 3 ♀		3 ♂, 3 ♀ <u>Rhipicephalus longus</u>
	W. Africa		West Africa
	Dr. Jackson		Dr. Jackson
N	1614	N	1614
		RML	110421
	<u>Rhipicephalus duttoni</u> ♂, ♀'s, N's		1 ♂, 1 ♀, 2 N <u>Rhipicephalus duttoni</u>
	Cattle		Cattle
	Zambu, Africa		Zambi, Zaire (there are 4 possible localities in Zambia with this name)
	No date		No date
	Drs. Dutton & Todd		Drs. Dutton & Todd
	Compared with <u>R. duttoni</u> 1 ♂ type N.1719 in Neumann coll., 18.VI.1914. Our ♂ more punctate & rougher caudal process less protruding. We call it a co-type as it is from the same lot as the type and was rec'd from Liverpool.		Blue COTYPE label in vial. Note in vial - "only 2 ticks 26.X.1934". [The nymphs were found in a separate vial].

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1615	N	1615
	<u>Rhipicephalus sulcatus</u> ♂, ♀	RML	110422
	Banana, Belgian Congo, W. Africa		5 ♂ <u>Rhipicephalus sulcatus</u>
	Dr. Etienne		Banana (01.22 N, 28.52 E) or (06.01 S, 12.24 E), Zaire
N	1616	N	1616
	<u>Rhipicentor bicornis</u> 3 ♂, 10 ♀	RML	110423
	Airedale terrier		2 ♂, 6 ♀ <u>Rhipicentor bicornis</u> 1 ♀ <u>Rhipicephalus simus</u>
	During journey - Karonga - Fort Hill - Nyimbo - Masuko - Karonga, B.C. Africa		Airedale terrier
	III-IV.1909		During journey Karonga (09.56 S, 33.56 E), Chitipa (09.43 S, 33.16 E), Nyimbo Hill (09.41 S, 33.02 E), Masuko (locality not verified), Karonga, Malawi
	Dr. J. B. Davey		III-IV.1909
N	1617	N	1617 MISSING
	<u>Haemaphysalis leachi</u> ♀'s		
	Airedale terrier		
	During journey - Karonga, Fort Hill - Nyimbo - Masuko - Karonga, B.C. Africa		
	III-IV.1909		
	Dr. J. B. Davey		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1618

Rhipicephalus lunulatus 3 ♂, 3 ♀

Airedale terrier

During journey Karonga - Fort Hill -
Nyimbo - Masuko - Karonga, B.C.
Africa

III-IV.1909

Dr. J. B. Davey

N 1618

RML 110424

3 ♂, 3 ♀ Rhipicephalus lunulatus

Airedale terrier

During journey Karonga (09.56 S,
33.56 E), Chitipa (09.43 S, 33.16),
Nyimbo Hill (09.41 S, 33.02 E),
Masuko (locality not verified),
Karonga, Malawi

III-IV.1909

Dr. J. B. Davey

N 1619

Rhipicephalus evertsi var.
albigeniculatus 2 ♂ COTYPES

Cattle

Kasongo, Congo Free State

Drs. Dutton & Todd

N 1619

RML 110425

2 ♂ Rhipicephalus evertsi mimeticus
Paralectotypes

Cattle

Either Kasonga (05.28 S, 21.11 E),
or (05.42 S, 18.48 E), Zaire

Drs. Dutton & Todd

Syntypes of R. evertsi albigenicu-
latus. Nuttall & Warburton (1916:
327) original description. Para-
lectotypes designated: Keirans &
Brewster (1981: 169).

Blue COTYPE label in vial

N 1620

Amblyomma eburneum 1 ♂

No data

N 1620

RML 110426

1 ♂ Amblyomma eburneum

No data

ORIGINAL DETERMINATION

N 1621

Haemaphysalis leachi ♂'s, ♀'s
 Leopard
 Tshumbiri, Congo Free State
 Mrs. Billington

N 1622

Amblyomma variegatum 30 ♂
 Cattle
 Salaga, Gold Coast, W. Africa
 8.V.1911
 Dr. LeFanu

N 1623

Amblyomma variegatum 20 ♀
 Cattle
 Salaga, Gold Coast, W. Africa
 8.V.1911
 Dr. LeFanu

CURRENT STATUS

N 1621

 RML 110427
 12 ♂, 3 ♀ Haemaphysalis leachi
Panthera pardus
 Tshumbiri (02.39 S, 16.14 E),
 Zaire
 Mrs. Billington
 Cited: Nuttall & Warburton (1915:
 473).

N 1622 MISSING

N 1623 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	1624	N	1624
		RML	110428
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		5 ♂, 6 ♀ <u>Hyalomma dromedarii</u>
	Camels		<u>Camelus dromedarius</u>
	Pyramids, Cairo, Egypt		Pyramids, Cairo (30.03 N, 31.15 E), Egypt
	1909-10		1909-1910
	Dr. J.W.W. Stephens		Dr. J.W.W. Stephens
N	1625	N	1625
		RML	110429
	<u>Aponomma gervaisi</u> 6 ♂, 2 ♀, 8 N		3 ♂, 1 ♀, 7 N <u>Aponomma gervaisi</u>
	Lizard		Lizard
	No other data		No other data
N	1626	N	1626
		RML	110430
	<u>Dermacentornitens</u> 2 ♂, 4 ♀		2 ♂, 4 ♀ <u>Anocentor nitens</u>
	Horse		Horse
	No other data		No other data

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1627	N	1627
		RML	110431
	<u>Dermacentor albipictus</u> 2 ♀ & N'al skins		2 ♀ <u>Dermacentor albipictus</u>
	Horse		Horse
	Dolores, Colorado, U.S. America		Dolores (37.28 N, 108.30 W), Colorado, U.S.A.
	26.II.1912		26.II.1912
	S. Hadwen, coll. & det.		S. Hadwen, coll. & det.
			Two nymphal skins present
N	1628	N	1628
		RML	110432
	<u>Dermacentor albipictus</u> 3 N		3 N <u>Dermacentor albipictus</u>
	Horse		Horse
	Dolores, Colorado, U.S. America		Dolores (37.28 N, 108.30 W), Colorado, U.S.A.
	26.II.1912		26.II.1912
	S. Hadwen coll. & det.		S. Hadwen coll. & det.

ORIGINAL DETERMINATIONCURRENT STATUS

N

1629

N

1629

RML

110433

Haemaphysalis silacea 2 ♀2 ♀ Haemaphysalis silacea
Lectotype and paralectotype

Cattle

Cattle

Starvation Camp, Gonubie Park,
E. London, S. AfricaStarvation Camp, Gonubie Park
(32.55 S, 27.59 E), Republic of
South Africa

Rec'd from W. F. Cooper

Rec'd from W. F. Cooper

[Cattle excluded 2 years from
pasture, see "Parasitology" IV,
478]Robinson (1912: 478), original
description. See also Nuttall
catalogue number 2944. Lectotype
designated: Keirans & Brewster
(1981: 163).

One ♀ vulva is mounted on a slide.

Ticks received from Dr. J. G. Parham Government Bacteriologist, Zanzibar,
B.E. Africa, 20 May 1912.

N

1630

N

1630

RML

110434

Rhipicephalus appendiculatus ♂, ♀6 ♂, 1 ♀ Rhipicephalus appendiculatus

Goat

Goat

Zanzibar Town, B.E. Africa

Zanzibar City (06.10 S, 39.11 E),
Zanzibar Island, Tanzania

24.IV.1912

24.IV.1912

J. G. Parham

J. G. Parham

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1631, a	N	1631, a
		RML	110435
	(1631) <u>Rhipicephalus appendiculatus</u> ♂ ♀ (a) <u>Boophilus australis</u> ♀, N		(1631) 9 ♂, 8 ♀, 3 N <u>Rhipicephalus appendiculatus</u> (a) 10 ♀, 4 N <u>Boophilus microplus</u>
	Goat		Goat
	Ba-bu-bu, Zanzibar, B.E. Africa		Bububu (06.06 S, 39.13 E), Zanzibar Island, Tanzania
	25.IV.1912		25.IV.1912
	J. G. Parham		J. G. Parham
N	1632	N	1632
		RML	110436
	<u>Rhipicephalus appendiculatus</u> ♂, ♀		8 ♂, 4 ♀ <u>Rhipicephalus appendiculatus</u>
	Bullock		Bullock
	Ba-bu-bu, Zanzibar, B.E. Africa		Bububu (06.06 S, 39.13 E), Zanzibar Island, Tanzania
	25.IV.1912		25.IV.1912
	J. G. Parham		J. G. Parham
N	1633	N	1633
		RML	110437
	<u>Rhipicephalus appendiculatus</u> ♂, ♀		9 ♂, 6 ♀ <u>Rhipicephalus appendiculatus</u>
	Sheep		Sheep
	Mbelado, Zanzibar, B.E. Africa		Mbelado, Zanzibar Island, Tanzania (locality not verified).
	23.IV.1912		23.IV.1912
	J. G. Parham		J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N 1634

N 1634

RML 110438

Rhipicephalus appendiculatus ♂, ♀, N8 ♂, 9 ♀, 2 N Rhipicephalus appendiculatus

Bullock

Bullock

Zanzibar Town, B.E. Africa

Zanzibar City (06.10 S, 39.11 E),
Zanzibar Island, Tanzania

23.IV.1912

23.IV.1912

J. G. Parham

J. G. Parham

N 1635

N 1635

RML 110439

Rhipicephalus appendiculatus 1 ♀1 ♀ Rhipicephalus appendiculatus

Cow

Cow

Zanzibar Town, B.E. Africa

Zanzibar City (06.10 S, 39.11 E),
Zanzibar Island, Tanzania

22.IV.1912

22.IV.1912

J. G. Parham

J. G. Parham

N 1636

N 1636

RML 110440

Rhipicephalus appendiculatus ♂, ♀11 ♂, 10 ♀, 2 N Rhipicephalus appendiculatus

Bullock

Bullock

Mangapwani, B.E. Africa

Mangapwani (06.00 S, 39.11 E),
Zanzibar Island, Tanzania

26.IV.1912

26.IV.1912

J. G. Parham

J. G. Parham

ORIGINAL DETERMINATION

N 1637

Rhipicephalus appendiculatus ♂ ♀

Donkey

Machin, Zanzibar, B.E. Africa

22.IV.1912

J. G. Parham

N 1638

Rhipicephalus appendiculatus ♂, ♀

Goat

Gulioni, Zanzibar, B.E. Africa

23.IV.1912

J. G. Parham

N 1639

Rhipicephalus appendiculatus ♂ ♀

Donkey

Zanzibar Town, B.E. Africa

24.IV.1912

J. G. Parham

CURRENT STATUS

N 1637

RML 110441

3 ♂, 9 ♀ Rhipicephalus appendiculatus

Donkey

Machin, Zanzibar Island, Tanzania
(locality not verified)

22.IV.1912

J. G. Parham

N 1638

RML 110442

2 ♂, 5 ♀ Rhipicephalus appendiculatus

Goat

Gulioni (05.59 S, 39.22 E),
Zanzibar Island, Tanzania

23.IV.1912

J. G. Parham

N 1639

RML 110443

10 ♂, 2 ♀ Rhipicephalus appendiculatus

Donkey

Zanzibar City (06.10 S, 39.11 E),
Zanzibar Island, Tanzania

24.IV.1912

J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N	1640	N	1640
		RML	110444
	<u>Rhipicephalus appendiculatus</u> ♂, ♀		2 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>
	Ram		Ram
	Zanzibar Town, B.E. Africa		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	22.IV.1912		22.IV.1912
	J. G. Parham		J. G. Parham
N	1641	N	1641
		RML	110445
	<u>Rhipicephalus appendiculatus</u> ♂, ♀		2 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u>
	Goat		Goat
	N'gambo, Zanzibar, B.E. Africa		Ngambo (06.10 S, 39.12 E), Zanzibar Island, Tanzania
	23.IV.1912		23.IV.1912
	J. G. Parham		J. G. Parham
N	1642	N	1642
		RML	110446
	<u>Rhipicephalus appendiculatus</u> ♀		1 ♀ <u>Rhipicephalus appendiculatus</u>
	Donkey		Donkey
	N'gambo, Zanzibar, B.E. Africa		Ngambo (06.10 S, 39.12 E), Zanzibar Island, Tanzania
	23.IV.1912		23.IV.1912
	J. G. Parham		J. G. Parham

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1643	N	1643
		RML	110447
	<u>Rhipicephalus appendiculatus</u> ♂, ♀, N (very small)		1 ♂, 1 ♀, 1 N <u>Rhipicephalus appendiculatus</u>
	Dog		Dog
	N'gambo, Zanzibar, B.E. Africa		Ngambo (06.10 S, 39.12 E), Zanzibar Island, Tanzania
	23.IV.1912		23.IV.1912
	J. G. Parham		J. G. Parham
N	1644	N	1644
		RML	110448
	<u>Rhipicephalus sanguineus</u> ♂, ♀, N		11 ♂, 5 ♀, 47 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Zanzibar Town, B.E. Africa		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	25.IV.1912		25.IV.1912
	J. G. Parham		J. G. Parham
N	1645	N	1645
		RML	110449
	<u>Rhipicephalus sanguineus</u> N's		6 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Ba-bu-bu, Zanzibar, B.E. Africa		Bububu (06.06 S, 39.13 E), Zanzibar Island, Tanzania
	25.IV.1912		25.IV.1912
	J. G. Parham		J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N	1646, a	N	1646, a
		RML	110450
	(1646) <u>Rhipicephalus appendiculatus</u> 2 ♂		(1646) 2 ♂ <u>Rhipicephalus appendi-</u>
	(a) <u>Rhipicephalus evertsi</u> ♂		<u>culatus</u>
			(a) 1 ♂ <u>Rhipicephalus evertsi</u>
	Sheep		Sheep
	Zanzibar Town, B.E. Africa		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	24.IV.1912		24.IV.1912
	J. G. Parham		J. G. Parham
N	1647	N	1647
		RML	110451
	<u>Haemaphysalis spiniceps</u> 1 ♂		1 ♂ <u>Haemaphysalis cornigera</u>
	(unique type!)		Holotype of <u>H. spiniceps</u>
	Federated Malay States		Malaysia
	H. C. Pratt		H. C. Pratt
	(Lent by Col. A. Alcock, F.R.S. = <u>H. cornigera</u> Nn., 1897)		Warburton & Nuttall (1909: 68), original description of <u>H.</u> <u>spiniceps</u> ; Nuttall & Warburton (1915: 503).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1648

Haemaphysalis vidua 1 ♂
(unique type)Paradoxurus sp.

Federated Malay States

(Lent by Col. A. Alcock, F.R.S.,
III.1909)

N 1648

RML 110452

1 ♂ Haemaphysalis vidua
HolotypeParadoxurus sp.

Malaysia

Mr. A. T. Stanton

Warburton & Nuttall (1909: 66),
original description, and collect-
or's name. Cited: Nuttall & Warb-
urton (1915: 495); Hoogstraal
(1962b: 719).

N 1649

Argas reflexus var. indicus
1 specimen

Found in book

Entomological room, Indian Museum,
Calcutta

15.III.1910

C. A. Paiva

[Indian Mus. $\frac{6267}{10}$]

N 1649

RML 66578

1 ♀ Argas reflexus indicus
Lectotype

Found in book

Entomological room, Indian Museum,
Calcutta (22.32 N, 88.22 E), IndiaWarburton (1910: 396), original
description. Lectotype designated:
Keirans & Brewster (1981: 154).

ORIGINAL DETERMINATIONCURRENT STATUS

- N 1650, a-e
- (1650) Amblyomma splendidum ♂'s, ♀'s
- (a) Amblyomma splendidum ♂'s, ♀'s
- (b) Boophilus annulatus ♂'s, ♀'s
- (c) Rhipicephalus evertsi var. albigeniculatus types
- (d) Rhipicephalus capensis ♂'s, ♀'s
- (e) Rhipicephalus sulcatus 1 ♀

Cattle

Lower Congo

23-30.IV.1912

[These ticks arrived mostly dead, living A. splendidum (1 ♂) and A. variegatum (♂ & ♀) were figured by E. Wilson and an attempt will be made to raise them. Some gorged female A. variegatum were ovipositing].

- (a) 1 ♂, 1 ♀ to R. W. Mettam, Weybridge IV.1931. 1 ♂, 1 ♀ to H. S. Purchase IV.1931
- (d) 1 ♂, 1 ♀ to D. S. Hadwen, Canada 10.X.1913. 1 ♂, 1 ♀ to Dr. E. Pavlovsky, Leningrad, 9.X.1925.

A. variegatum (N 1650) Raised in Cambridge See also N 1694.

- (a) 22.VI.12 eggs (in box with ova)
- (b) larvae
- (c)
- (e) ♂'s
- (f) ♀'s unfed (f¹) ♀'s after ovipositing

NOTE: re lot 1650; not to be published, for private information only. These ticks were received through the courtesy of Professor Meuleman (Brussels), who procured them for me from a Director of a large cattle raising company, who begged him (Meuleman) not to divulge the place whence the ticks came as the Government might get interested in cattle diseases there and worry the company. I can get a good supply from the co. in September when the rains set in again. All the ticks came from the Island of Mateba, near Boma, Belgian Congo. I am also not to mention that Meulman sent these ticks, as it would be known at once whence they came.

- N 1650, a-e
- RML 110453

- (1650) 153 ♂, 57 ♀ Amblyomma variegatum
- (a) 45 ♂, 8 ♀ Amblyomma splendidum
- (b) 13 ♂, 6 ♀ Boophilus annulatus
- (c) 16 ♂, 8 ♀ Rhipicephalus evertsi mimeticus Lectotype and Paralectotype
- (d) 20 ♂, 39 ♀ Rhipicephalus longus
- (e) 1 ♀ Rhipicephalus sanguineus

Cattle

Mateba Island (05.54 S, 12.50 E), Zaire

23-30.IV.1912

- (1650) total includes 12 ♂, 4 ♀ pinned and 15 ♀ in a jar of dry specimens.
- (a) Total includes 12 ♂, 3 ♀ pinned. In a separate vial is 1 ♂ A. splendidum with its hypostome embedded in the body of a nymph.
- (1650) Cited Nuttall (1915: 419) original description. Lectotype designated: Keirans & Brewster (1981: 169).
- (1650) & (1650a) are cited and figured by Nuttall (1913c: 49).

G.H.F. Nuttall
31 May 1912

Ticks from the collection of the Liverpool School of Tropical Medicine, received from Prof. R. Newstead, April 24, 1912. Determined by Prof. L. G. Neumann (Toulouse), 22 May 1912.

ORIGINAL DETERMINATION

CURRENT STATUS

N	1651	N	1651
		RML	110454
	<u>Amblyomma geayi</u> 1 ♀		1 ♀ <u>Amblyomma geayi</u>
	"Mpouri"		"Mpouri"
	British Guiana		Guyana
	1909		1909
	Dr. K. S. Wise		Dr. K. S. Wise
			Cited: Robinson (1926: 61).
N	1652	N	1652
		RML	110455
	<u>Amblyomma tholloni</u> 1 ♂		1 ♂ <u>Amblyomma tholloni</u>
	No data		No data
	Rec'd from Professor R. Newstead Liverpool School of Tropical Medicine 22.V.1912. Det. L.E.R.		
N	1653	N	1653
		RML	110456
	<u>Amblyomma dissimile</u> 1 ♀		1 ♀ <u>Amblyomma dissimile</u>
	Sheep		Sheep
	No other data		No other data
			The specimen certainly appears to be <u>A. dissimile</u> although this species is exclusively a parasite of amphibians and reptiles. Either the host datum is incorrect, or because the tick is unfed, perhaps a case of straggling. Cited: Robinson (1926: 167).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1654

Amblyomma coelebs 4 ♂, 3 ♀

No data

N 1654

RML 110457

3 ♂, 3 ♀ Amblyomma coelebs
1 ♂ Amblyomma cajennense

No data

The ♂ of Amblyomma cajennense is in a jar marked "Tick Abnormalities". That same male was figured by Robinson (1920: 177).

N 1655

Amblyomma ovale 2 ♂, 3 ♀

No data

L.E.R. det. 1926

N 1655

RML 110458

2 ♂, 4 ♀ Amblyomma ovale

No data

From Liverpool School of Tropical Medicine #144c

There is a blue COTYPE label in the vial with these ticks.

N 1656

Amblyomma sp. nymphs

No data

N 1656

RML 110459

62 N Amblyomma sp.

No data

<u>ORIGINAL DETERMINATION</u>	<u>CURRENT STATUS</u>
N 1657 <u>Hyalomma syriacum</u> larvae <u>Testudo graeca</u> Raised in Quick Laboratory Cambridge IV.1911	N 1657 RML 110460 58 L <u>Hyalomma aegyptium</u> <u>Testudo graeca</u> Raised in Quick Laboratory, Cambridge (52.13 N, 00.08 E), England IV.1912 [Date on vial label]
N 1658 <u>Boophilus annulatus</u> ♀'s (gorged) Cattle Dallas, Texas, U.S. America 3.V.1912 Rec'd from Mr. F. C. Bishopp, 29.V.1912 <u>B. annulatus</u> : Raised in Cambridge in 1912 (a) eggs in box with ova (b) larvae (c) ♂'s (c') ♂'s (d) ♀'s gorged (e) ♀'s after oviposition 3 ♂, 1 ♀ to J. de Meza, Zomba, Nyasaland 19.II.1916 1 ♂, larvae to Dr. E. Roubaud, Inst. Pasteur 12.X.1922 1 ♂, larvae to Prof. J. Hjort, Univ. Christiania, Norway 12.X.1922 1 ♂, larvae to Dr. A. Watkins Pitchford Army Vet School, Thornhill, Aldershot 12.X.1922	N 1658 RML 110461 86 ♂, 101 ♀, 181 L, 1 vial of eggs <u>Boophilus annulatus</u> Cattle Dallas (32.47 N, 96.48 W), Texas, U.S.A. 3.V.1912 Rec'd from Mr. F. C. Bishopp, 29.V.1912 Cited: Edwards & Evans (1967: 596).

ORIGINAL DETERMINATIONCURRENT STATUS

- N 1658 (cont'd)
- 1 ♂, larvae to L.P.W. Renouf, Biol. Dept. Univ. College, Cork, Ireland, 12.X.1922
- 1 ♂, larvae to W.A. Pool, Indian Civil Veterinary Dept., 12.X.1922
- 1 ♂, larvae to Dr. Wm. Parry Morgan, Publ. Hlth. Lab., Cardiff, Wales, 12.X.1922
- 1 ♂, larvae to J.E.M. Mellor, Malvern College, Malvern, 16.X.1922
- 1 ♂, larvae to Prof. A. Bettencourt, Inst. Camara Pestana, Lisbon 7.XI.1922
- 1 ♂, larvae to Prof. E. Brumpt, École Médecine, Paris 12.X.1922
- 1 ♂, larvae to I. C. Ross, University of Sydney, Australia
- 1 ♂, 1 ♀ to Prof. R. Matheson, Cornell, 27.V.1929
- 1 ♂, 1 ♀ to Dr. A. C. Reed 30.V.1929
- 1 ♂, 1 ♀ to Prof. J. Drbohlav 30.V.1929
- 2 ♀ to Prof. E. Malvoz 30.V.1929

N 1659

N 1659

RML 110462

Amblyomma marmoreum 1 ♂1 ♂ Amblyomma marmoreumTestudo leopardinusGeochelone pardalis

South Africa

Republic of South Africa

10.I.1912

10.I.1912

(Zool Soc "No. 19")

Cited: Robinson (1926: 90);
Theiler & Salisbury (1959: 107).The tick specimen was collected
at the London Zoo.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1660

N 1660

RML 110463

Ornithodoros tholozani (4 adults)3 ♀ Ornithodoros tholozani

Quetta, Baluchistan, India

Quetta (30.12 N, 67.00 E),
Pakistan

Rec'd 27.V.1912

Rec'd 27.V.1912

Rec'd from Major G.E.F. Stammers,
R.A.M.C.Rec'd from Major G.E.F. Stammers,
R.A.M.C.

Compared with types in the Paris Museum, labelled "Argas tholozani Laboulb. et Mégnin reueuillis en 1882 dans un poulailler, Téhéran, Tholozan. 1587-84." Kindly lent me by the Museum (Prof. Bouvier), who sent 3 specimens: 1 adult & 2 N's. N., 5.VI.1912.

Ticks received from the Indian Museum, Calcutta, India, (per Dr. N. Annandale), April-May, 1912. Determined by Mr. Warburton, as follows: (All Abor Expedition).

Haem. bispinosa 1 ♀, off sweepings, Badiya, N. E. Assam. 24.XI.19
(Abor Expedition) S.W. Kemp. [Indian Mus. 1244].
17

Haem. sp.? o's, off jungle fowl (Gallus gallus), Yambung, India
(1,100 ft.), II.1912. S.W. Kemp. [Indian Mus. 1245].
17

Haem. sp.? o's, off grass, Upper Rotung (2,000 ft.), II.1912
S.W. Kemp. [Indian Mus. 1246].
17

Ixodes kemp off Sciurus erythaeus intermedius Aud, Kobo
n.sp., Nuttall, 1913 (400 ft.), 24.III.1912. S.W. Kemp. [Indian Mus. 1247]
17

Ixodes acutitarsus 1 ♀, off ?, Yambung (1,100 ft.), 13-17.I.1912.
S. W. Kemp. [Indian Mus. 1248]
17

Ambl. testudinarium 1 ♀, off ? below Damda, banks of Siyom R, 1.II.1912.
S.W. Kemp. [Indian Mus. 1249].
17

Haem. sp.? o's, off ? Yambung (1,100 ft.), II.1912.
S.W. Kemp. [Indian Mus. 1250]
17

Haem. aborensis 1 ♀ off grass sweepings, Yambung (1,100 ft.), 13-17.I.1912.
n. sp., N & W, 1913 S.W. Kemp. [Indian Mus. 1251]
17

Ambly. testudinarius ♀, found under logs, Sadiya, N. E. Assam 25.XI.1911.
[Indian Mus. 1262]
17

Haem. hystericis off ?, De Krang R., Sadiya, N.E. Assam, 26.XII.1911.
(not typical!) S.W. Kemp. [Indian Mus. 1253]
17

Ticks retained for our collection out of the consignment sent for determination by N. B. Kinnear, Esq., Bombay Natural History Society, Apollo Street, Bombay, India, 21.VI.1912:-
[When describing the n. sp. of this collection mention that they were obtained from the Bombay Natural History Society's Mammal Survey. Write a short paper on them, with a brief popular introduction, as "it might be the means of interesting some of the members to collect specimens" which would be sent to us. The Society is prepared to pay for some tick blocks. (See letter by Kinnear, "Tick Correspondence, 21 June, 1912)].

ORIGINAL DETERMINATION

CURRENT STATUS

N 1661

N 1661

RML 110464

Haemaphysalis leachi var.
indica ♂, ♀

1 ♂, 1 ♀ Haemaphysalis indica

Mungos mungo

Herpestes edwardsi

Parola, Kandeish, India

Parola (20.53 N, 75.07 E),
India

13.III.1911

13.III.1911

C. A. Crump

C. A. Crump

Cited: Nuttall & Warburton
(1915: 475).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1662	N	1662
	<u>Hyalomma</u> sp. N's	RML	110465
	<u>Lepus simicoxi</u>		8 N <u>Hyalomma</u> sp.
	Fardapur, Kandeish, India		<u>Lepus nigricollis simcoxi</u>
	1911		Fardapur, Maharashtra, India (locality not verified)
	C. A. Crump		1911
			C. A. Crump
N	1663	N	1663 MISSING
	<u>Haemaphysalis leachi</u> ♂, ♀		
	<u>Felis affinis</u>		
	Fardapur, Kandeish, India		
	10.IV.1911		
	C. A. Crump		
N	1664	N	1664
	<u>Amblyomma sublaeve</u> 1 ♀, 1 N	RML	110466
	<u>Hyaena hyaena</u>		1 ♀ <u>Amblyomma javanense</u>
	Ghodasgaon, Kandeish, India		<u>Hyaena hyaena</u>
	4.V.1911		Ghodasgaon, Maharashtra, India (locality not verified)
	C. A. Crump		4.V.1911
			C. A. Crump
			Cited: Robinson (1926: 247).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1665

Haemaphysalis bispinosa
var. intermedia 1 ♂

Hyaena hyaena

Ghodasgaon, Kandeish, India

4.V.1911

C. A. Crump

N 1665

RML 110467

1 ♂ Haemaphysalis kutchensis
Paratype

Hyaena hyaena

Ghodasgaon, Maharashtra, India
(locality not verified)

4.V.1911

C. A. Crump

Cited: Nuttall & Warburton
(1915: 435); Hoogstraal &
Trapido (1963a: 489), original
description of H. kutchensis.

N 1666

Haemaphysalis bispinosa var.
intermedia 2 ♂

Felis affinis

Ghodasgaon, Kandeish, India

5.V.1911

C. A. Crump

N 1666

RML 110468

2 ♂ Haemaphysalis kutchensis
Paratype

Felis chaus

Ghodasgaon, Maharashtra, India
(locality not verified)

5.V.1911

C. A. Crump

Cited: Nuttall & Warburton
(1915: 435); Hoogstraal &
Trapido (1963a: 489), original
description of H. kutchensis.

ORIGINAL DETERMINATION

N 1667

Amblyomma sublaeve ♂'s, ♀'s, N's

Hyaena hyaena

Ghondasgaon, Kandeish, India

1911

C. A. Crump

N 1668

Amblyomma sublaeve 2 ♂, 1 ♀, 3 N

Hyaena hyaena

Ghondasgaon, Kandeish, India

10.V.1911

C. A. Crump

N 1669

Hyalomma aegyptium N

Presbytis entellus

Chikalda, Berars, India

1911

C. A. Crump

CURRENT STATUS

N 1667

RML 110469

5 ♂, 1 ♀, 2 N Amblyomma javanense

Hyaena hyaena

Ghondasgaon, Maharashtra, India
(locality not verified)

1911

C. A. Crump

N 1668

RML 110470

2 ♂, 1 ♀, 4 N Amblyomma javanense

Hyaena hyaena

Ghondasgaon, Maharashtra, India
(locality not verified)

10.V.1911

C. A. Crump

N 1669

RML 110471

1 N Hyalomma sp.

Presbytis entellus

Either Clikalda (21.24 N, 77.19 E)
or (22.05 N, 74.53 E), India

1911

C. A. Crump

ORIGINAL DETERMINATION

N 1670

Hyalomma aegyptium ? 2 ♀
(small)Epimys rufescens

Pili, Sipna Valley, Berars, India

31.V.1911

C. A. Crump

N 1671

Rhipicephalus haemaphysaloides 2 ♂, 1 ♀Cuon dukhunensis

Pili, Sipna Valley, Berars, India

1911

C. A. Crump

CURRENT STATUS

N 1670

RML 66612

2 ♀ Hyalomma sp.Rattus rattus rufescensPili, Sipna Valley, Bihar, India
(locality not verified)

31.V.1911

C. A. Crump

These specimens key to Hyalomma anatolicum in Kaiser & Hoogstraal (1964) but the host is incorrect and, as Nuttall states, the specimens are very small.

N 1671, b

RML 110472

(1671) 2 ♂, 1 ♀ Rhipicephalus haemaphysaloides
(b) 3 ♂, 3 ♀ Haemaphysalis paraturturis
Paratypes

Cuon alpinus dukhunensisPili, Sipna Valley, Bihar, India
(locality not verified)

1911

C. A. Crump

Collection 1671b was not entered into the catalogue. Hoogstraal et al. (1963: 686), original description of H. paraturturis.

ORIGINAL DETERMINATION	CURRENT STATUS
N 1672	N 1672
<u>Haemaphysalis bispinosa</u> var. <u>intermedia</u> ♂, ♀	5 ♂, 1 ♀ <u>Haemaphysalis paraturturis</u>
<u>Cuon dukhunensis</u>	<u>Cuon alpinus dukhunensis</u>
Pili, Sipna Valley, Berars, India	Pili, Sipna Valley, Bihar, India (locality not verified)
1911	1911
C. A. Crump	C. A. Crump
	Cited: Nuttall & Warburton (1915: 435); Hoogstraal et al. (1963: 686), original description of <u>H. paraturturis</u> .
	Three slides of a dissected ♂ are present.
N 1673, a	N 1673
	RML 110473
(1673) <u>Rhipicephalus haemaphysaloides</u> 3 ♂, 1 ♀	(1673) 2 ♂, 1 ♀ <u>Rhipicephalus</u> <u>haemaphysaloides</u>
(a) <u>Haemaphysalis bispinosa</u> 1 ♂ (an uncharacteristic form)	(a) MISSING
<u>Cuon dukhunensis</u>	<u>Cuon alpinus dukhunensis</u>
Pili, Sipna Valley, Berars, India	Pili, Sipna Valley, Bihar, India (locality not verified)
1911	1911
C. A. Crump	C. A. Crump

ORIGINAL DETERMINATIONCURRENT STATUS

N 1674

Rhipicephalus sanguineus ♂ & ♀

Felis ornata

Bhuj, Cutch, India

1911

C. A. Crump

N 1674

RML 110474

1 ♂, 1 ♀ Rhipicephalus sanguineus

Felis libyca ornata

Bhuj (23.16 N, 69.40 E), Kutch, India

1911

C. A. Crump

N 1675

Rhipicephalus sanguineus 1 ♂

Erinaceus collaris

Bhuj, Cutch, India

8.VII.1911

C. A. Crump

N 1675

RML 110475

1 ♂ Rhipicephalus sanguineus

Hemiechinus auritus collaris

Bhuj (23.16 N, 69.40 E), Kutch, India

8.VII.1911

C. A. Crump

N 1676

Rhipicephalus sanguineus 2 ♂, 2 ♀

Hyaena hyaena

Nokania, Cutch, India

10.VII.1911

C. A. Crump

N 1676

RML 110476

1 ♂, 3 ♀ Rhipicephalus sanguineus

Hyaena hyaena

Nokania, Kutch, India
(locality not verified)

10.VII.1911

C. A. Crump

ORIGINAL DETERMINATIONCURRENT STATUS

N	1677	N	1677
		RML	110477
	<u>Rhipicephalus sanguineus</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	<u>Erinaceus micropus</u>		<u>Paraechinus micropus</u>
	Bhuj, Cutch, India		Bhuj (23.16 N, 69.40 E), Kutch, India
	8.VII.1911		8.VII.1911
	C. A. Crump		C. A. Crump
N	1678	N	1678
		RML	110478
	<u>Hyalomma</u> sp. N		1 N <u>Hyalomma</u> sp.
	<u>Cremnomys cutchicus</u>		<u>Rattus (Cremnomys) cutchicus</u>
	Chalwa, Cutch, India		Probably Charwa (22.07 N, 76.54 E), Kutch, India
	7.VIII.1911		7.VIII.1911
	C. A. Crump		C. A. Crump
N	1679	N	1679
		RML	110479
	<u>Rhipicephalus</u> sp. N		1 N <u>Rhipicephalus</u> sp.
	<u>Cremnomys cutchicus</u>		<u>Rattus (Cremnomys) cutchicus</u>
	Chalwa, Cutch, India		Probably Charwa (22.07 N, 76.54 E), Kutch, India
	7.VIII.1911		7.VIII.1911
	C. A. Crump		C. A. Crump

ORIGINAL DETERMINATIONCURRENT STATUS

N 1680

N 1680

RML 110480

Haemaphysalis bispinosa var.
intermedia 3 ♂, 1 ♀3 ♂, 1 ♀ Haemaphysalis kutchensis
ParatypesCanis pallipesCanis lupus pallipes

Charwa, Cutch, India

Charwa (22.07 N. 76.54 E), Kutch,
India

1911

1911

C. A. Crump

C. A. Crump

Cited: Nuttall & Warburton (1915:
434) with N. B. Kinnear listed as
collector; Hoogstraal & Trapido
(1963a: 489), original description
of H. kutchensis with number of
specimens listed as 2 ♂, 1 ♀.

N 1681

N 1681

RML 110481

Rhipicephalus haemaphysaloides
2 ♂, 1 ♀2 ♂, 1 ♀ Rhipicephalus
haemaphysaloidesCanis pallipesCanis lupus pallipes

Charwa, Cutch, India

Charwa (22.07 N, 76.54 E), Kutch,
India

1911

1911

C. A. Crump

C. A. Crump

ORIGINAL DETERMINATION

N 1682

Haemaphysalis bispinosa var.
intermedia 2 ♂

Felis caracal

Bhuj, Cutch, India

19.VIII.1911

C. A. Crump

N 1683

Rhipicephalus sanguineus 1 ♂
(deformed)

Vulpes leucopus

Bhuj, Cutch, India

1911

C. A. Crump

CURRENT STATUS

N 1682

RML 110482

1 ♂ Haemaphysalis kutchensis
Paratype

Felis caracal

Bhuj (23.16 N, 69.40 E), Kutch,
India

19.VIII.1911

C. A. Crump

Cited: Nuttall & Warburton (1915:
434) with N. B. Kinnear listed as
collector, Hoogstraal & Trapido
(1963a: 489), original description
of H. kutchensis.

N 1683

RML 110483

1 ♂ Rhipicephalus sanguineus

Vulpes vulpes pusilla

Bhuj (23.16 N, 69.40 E), Kutch,
India

1911

C. A. Crump

This specimen is in a jar marked
"Tick Abnormalities".

Cited and figured by Nuttall
(1914a: 253).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1684

Hyalomma sp. ? N

Erinaceus micropus

Bhuj, Cutch, India

30.VIII.1911

C. A. Crump

N 1685

Aponomma gervaisi 3 ♂, 3 ♀

Varanus griseus

Mirpurkhas, Sind, India

15.IV.1911

C. A. Crump

N 1686

Haemaphysalis bispinosa var. intermedia 2 ♂, 2 ♀

Lepus ruficaudatus

Shamghar, India

25.III.1911

"N.B.K."

N 1684

RML 110484

1 N Hyalomma sp.

Paraechinus micropus

Bhuj (23.16 N, 69.40 E), Kutch, India

30.VIII.1911

C. A. Crump

N 1685

RML 110485

3 ♂, 3 ♀ Aponomma gervaisi

Varanus griseus

Mirpur Khas (25.32 N, 69.00 E), Pakistan

15.IV.1911

C. A. Crump

N 1686

RML 110486

2 ♂, 2 ♀ Haemaphysalis kutchensis Paratypes

Lepus nigricollis ruficaudatus

Shamghar (24.11 N, 75.38 E), India

25.III.1911

N. B. Kinnear

Cited: Nuttall & Warburton (1915: 434); Hoogstraal & Trapido (1963a: 489), original description with number of specimens listed as 1 ♂, 1 ♀.

ORIGINAL DETERMINATION

N 1687

Argas persicus (2)

Khartoum, Soudan

1912

Dr. A. Balfour

[Small tick was observed "feeding" through the back of the larger one, 19.III.1912]

CURRENT STATUS

N 1687 MISSING

Nuttall illustrates the larger tick showing a scar on the dorsum where feeding took place.

N 1688

Rhipicephalus sanguineus 2 N's
and
8 specimens of Hunterellus hookeri

Dogs

Corpus Christi, Texas

Rec'd 26.III.1912

Rec'd from H. P. Wood

Note: These hymenopterous parasites emerged at the Dallas Laboratory on 22.VI.1908 from the nymphal ticks which had been collected 29.V.1908 off dogs. Sent by my request by Mr. H. P. Wood (P.O. Box 208, Dallas, Texas) of the U.S. Dept. of Agric. 4 other specimens of H. hookeri were rec'd dry, these are being mounted on 2 slides; the others are in 50% alcohol as received.

N 1688 MISSING

Herbert Poland Wood (1883-1925)
B.S. Massachusetts Agricultural College 1907. Worked at Bureau of Entomology, Dallas, Texas where he investigated tick biology until transferred to Cereal and Forage Insect Investigations in 1920.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1689

N 1689

Boophilus annulatus ♀'s (gorged)

RML 110487

3 ♂, 31 ♀ Boophilus annulatus
(in two vials)

Immune Texas-fever bulls

Immune Texas-fever bulls

Experiment Station, Dallas,
Texas, U.S.A.Experiment Station, Dallas (32.47 N,
96.48 W), Texas, U.S.A.

14.IV.1912

15.IV.1912 & 1912

Sent by Mr. F. C. Bishopp

Sent by Mr. F. C. Bishopp

[Developed from larvae placed on
bulls 13.III.1911; began moulting
to nymphs 21.III; began moulting to
adults 1.IV; the gorged ♀'s collected
off bulls 14.IV.1912]. Sent by
Mr. F. C. Bishopp at the request of
Dr. L. O. Howard (used for raising
experiments 9.V.1912). N.

Vial label dates given above.

Ticks received from Professor Franz Hutyra, Budapest, Hungary, 7 June 1912.
(Majority returned 10.VI.1912)

N 1690

N 1690 MISSING

Ixodes ricinus 1 ♂, 2 ♀

Budapest, Hungary

VI.1912

Prof. von Ratz

ORIGINAL DETERMINATIONCURRENT STATUS

N 1691

Ixodes ricinus 3 ♂, 3 ♀
(in copula)Canis familiaris

Budapest, Hungary

VI.1912

Prof. von Ratz

N 1691

RML 110488

3 ♂, 3 ♀ Ixodes ricinusCanis familiarisBudapest (47.30 N, 19.05 E),
Hungary

VI.1912

Prof. von Ratz
Cited: Nuttall (1916: 333).

N 1692

Ixodes ricinus 1 ♂Cervus capreolus

Budapest, Hungary

VI.1912

Prof. von Ratz

N 1692 MISSING

N 1693

Haemaphysalis punctata 1 ♂, 4 ♀Equus caballus

Budapest, Hungary

VI.1912

Prof. von Ratz

N 1693

RML 110489

4 ♀ Haemaphysalis punctataEquus caballusBudapest (47.30 N, 19.05 E),
Hungary

VI.1912

Prof. von Ratz

Nuttall & Warburton (1915: 386)
cited this record but gave it an
incorrect Nuttall number (N 1695).

Ticks received 22.VI.1912, off cattle, Lower Congo, same origin as No. 1650 q.v., they arrived in wooden boxes, only a few alive (A. variegatum: ovipositing ♀'s & adults emerging from nymphal skins, also egg batches, kept for raising).

ORIGINAL DETERMINATION

CURRENT STATUS

N 1694a-d

N 1694 a, b, d

RML 110490

- (a) Amblyomma variegatum ♂'s, ♀'s
- (b) Rhipicephalus evertsi var. albigeniculatus ♂'s, ♀'s Types
- (c) Boophilus decoloratus ? ♀ & eggs
- (d) Rhipicephalus capensis ♂, ♀

- (a) 318 ♂, 129 ♀ Amblyomma variegatum
- (b) 5 ♂, 3 ♀ Rhipicephalus evertsi mimeticus Paralectotypes
- (c) MISSING
- (d) 1 ♂, 13 ♀ Rhipicephalus longus

Cattle

Cattle

Lower Congo

Mateba Island (05.54 S, 12.50 E),
Zaire

Rec'd 22.VI.1912

Rec'd 22.VI.1912

- (a) 2 ♂, 2 ♀ to Dr. J. G. Parham,
Port. East Africa, 18.IV.1913
2 ♂, 2 ♀ to N.Y. National
Museum 18.IV.1913

Total for (a) includes 4 ♂, 6 ♀ pinned. There are three additional vials of A. variegatum containing (1) 7 ♀; (2) 1 ♂; (3) 200 + eggs from a rearing study conducted at Cambridge which are not included in the totals given above.
(b) Nuttall & Warburton (1916: 327), original description. Paralectotype designated: Keirans & Brewster (1981: 169).

N 1695

N 1695 MISSING

Argas persicus 1 ♀

Beni Ounif, Algeria

Presented 24.VI.1912

Presented by E. Hindle

Very large!

Ticks received 16.VI.1912 from Prof. Galli-Valerio, Faculté de Médecine, Lausanne, Switzerland. His determinations of Nos. 1695-1699 were found correct. I det'd Nos. 1700-1702.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1696	N	1696
		RML	110491
	<u>Hyalomma aegypticum</u> 1 ♀		1 ♀ <u>Hyalomma dromedarii</u>
	Dromedary, horse or cattle		Camel, horse or cattle
	Ile de Djerba, Tunisia		Jarbah, Jazirat (33.48 N, 10.54 E), Tunisia
	1910		1910
N	1697	N	1697
		RML	110492
	<u>Amblyomma splendidum</u> 1 ♂		1 ♂ <u>Amblyomma splendidum</u>
	Cattle		Cattle
	Ngômo sur l'Ogoulle French Congo		Ngomo (03.31 S, 14.26 E), Congo
			Cited: Robinson (1926: 125).
N	1698	N	1698
		RML	110493
	<u>Aponomma gervaisi</u> 2 ♂		2 ♂ <u>Aponomma gervaisi</u>
	<u>Varanus</u> sp.		<u>Varanus</u> sp.
	Ceylon		Sri Lanka
	1901		1901

ORIGINAL DETERMINATIONCURRENT STATUS

N 1699

Boophilus annulatus 1 ♀

Cattle

Colombia, S. America

N 1700

Ixodes hexagonus 1 ♀

Erinaceus europaeus

Lausanne, Switzerland

1908

N 1701

Ixodes ricinus ♂ & ♀
pair (in copula)

Lepus timidus

Château de Ripaille, Haute
Savoie, France

1904

N 1699

RML 110494

1 ♀ Boophilus microplus

Cattle

Colombia, South America

N 1700

RML 110495

1 ♀ Ixodes hexagonus

Erinaceus europaeus

Lausanne (46.32 N, 06.40 E),
Switzerland

1908

Cited: Nuttall (1916: 328).

N 1701

RML 110496

1 ♂, 1 ♀ Ixodes ricinus

Lepus timidus (probably an incorrect
host determination)

Château de Ripaille, Department de
la Haute - Savoie (46.00 N, 06.20 E),
France

1904

Cited: Nuttall (1916: 332).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1702	N	1702
		RML	110497
	<u>Ixodes ricinus</u> 1 ♀		1 ♀ <u>Ixodes ricinus</u>
	Dog		Dog
	Orbe, Canton de Vaud, Switzerland		Orbe (46.43 N, 06.32 E), Canton de Vaud, Switzerland
	1901		1901 Cited: Nuttall (1916: 332).
N	1703	N	1703
		RML	110498
	<u>Ixodes putus</u> ♂'s, ♀'s (gorged & unfed), N's (gorged) & eggs		21 ♂, 53 ♀, 10 N, 176 L, 1 vial of eggs <u>Ixodes uriae</u>
	Collected from holes in cliffs		Collected from holes in cliffs
	Pitton, Gower, Glamorganshire, S. Wales		Pitton, Gower (51.36 N, 04.10 W), Glamorganshire, Wales
	3-4.VII.1912		3-4.VII.1912
	Mr. George Williams (Fisherman)		Mr. George Williams (Fisherman)
	Rec'd 5.VII.1912 (used for raising experiments). 3 slides mounted with larvae in balsam and 1 with N's. 1 ♂, 1 ♀, 1 N to Dr. S. Hadwen, Brit. Columbia, Canada, 10.X.1913 1 ♂, 1 ♀, L's to Prof. Dr. Dahl, Berlin Museum VII.1914 1 ♂, 1 ♀, 1 ♀s to Prof. Dr. Schenkling, Deutsches Entomol. Museum VII.1914 1 ♂, 1 ♀, L's to Prof. Dr. R. Gestro, Museo. Civico di Storia Nat., Genova, VII.1914 1 ♂, 1 ♀ L's to Dr. de Blicck, Java, 22.I.1915 2 ♂, 1 ♀ to Dr. E. Pavlovsky, Leningrad 9.X.1925 1 ♂, 2 ♀ to Prof. R. Matheson, Cornell, 27.V.1929		Collection of 5 vials Cited: Nuttall (1913d: 77); (1915: 437); (1916: 330). Slides missing

Ticks received from Dr. Lucius Nicholls, Victoria Hospital, St. Lucia,
Windward Islands, West Indies, 9 July 1912:

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1704	N	1704
		RML	110499
	<u>Amblyomma dissimile</u> 3 ♀'s		3 ♀ <u>Amblyomma dissimile</u>
	Toad		Toad
	St. Lucia, West Indies		Saint Lucia (13.55 N, 60.59 W), Lesser Antilles
	15.VI.1912		15.VI.1912
	Dr. L. Nicholls		Dr. L. Nicholls
N	1705	N	1705
		RML	110653
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s, N's		2 ♂, 2 ♀, 5 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	St. Lucia, West Indies		Saint Lucia (13.55 N, 60.59 W), Lesser Antilles
	15.VI.1912		15.VI.1912
	Dr. L. Nicholls		Dr. L. Nicholls
N	1706	N	1706
		RML	110654
	<u>Boophilus australis</u> 3 ♀		3 ♀ <u>Boophilus microplus</u>
	Bull		Bull
	St. Lucia, W. Indies		Saint Lucia (13.55 N, 60.59 W), Lesser Antilles
	15.VI.1912		15.VI.1912
	Dr. L. Nicholls		Dr. L. Nicholls
	Bull recently came from Barbuda, Leeward Islands		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1707, a	N	1707, a
		RML	110655
	(1707) <u>Dermacentor nitens</u> ♂'s, ♀'s, N, L		(1707) 5 ♂, 4 ♀, 2 N, 1 L <u>Anocentor</u> <u>nitens</u>
	(a) <u>Rhipicephalus sanguineus</u> ♂ & ♀		(a) 1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Fallow buck (deer)		Deer
	Barbuda, Leeward Islands, W. Indies		Barbuda (17.38 N, 61.48 W), Lesser Antilles
	4.IX.1911		4.IX.1911
	Dr. L. Nicholls		Dr. L. Nicholls
Ticks received back from the Entomological Research Committee (Tropical Africa), London, S.W. ex Report No. 22, 2 July 1912:			
N	1708	N	1708
		RML	110656
	<u>Rhipicephalus appendiculatus</u> ♂, ♀'s		9 ♂, 6 ♀ <u>Rhipicephalus appendiculatus</u>
	<u>Cobus defassa</u>		<u>Kobus ellipsiprymnus</u>
	Near Lango Bay, South Buddu, Uganda, B.E. Africa		Near Lango Bay, South Buddu, Uganda (locality not verified)
	IX.1911		IX.1911
	S. A. Neave		S. A. Neave
	(E.C. 456)		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1709	N	1709
		RML	110657
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		11♂, 10 ♀ <u>Rhipicephalus appendiculatus</u>
	<u>Cobus defassa</u>		<u>Kobus ellipsiprymnus</u>
	Plains N.E. of Lake Edward, Uganda, B.E. Africa		Plains N.E. of Lake Edward (00.25 S, 29.30 E), Uganda
	X.1911		X.1911
	S. A. Neave		S. A. Neave
	(ERC 457)		
N	1710	N	1710 MISSING
	<u>Amblyomma</u> sp. 2 N		
	Buffalo		
	Tero Forest Lango Bay, Uganda, B.E. Africa		
	30.IX.1911		
	S. A. Neave		
	(ERC 458b)		
N	1711	N	1711
		RML	110658
	<u>Rhipicephalus lunulatus</u> ♂'s, ♀'s		16 ♂, 12 ♀ <u>Rhipicephalus lunulatus</u>
	Eland		<u>Taurotragus oryx</u>
	S.E. Ankole, Uganda, B.E. Africa		S.E. Ankole Kingdom (00.30 S, 30.30 E), Uganda
	X.1910		X.1910
	S.A. Neave		S. A. Neave
	(E.R.C. 461a)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1712	N	1712
		RML	110659
	<u>Rhipicephalus falcatus</u> ♂'s, ♀'s		4 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Eland		<u>Taurotragus oryx</u>
	S.E. Ankole, Uganda, B.E. Africa		S.E. District of Ankole (00.30 S, 30.30 E), Uganda
	X.1910		X.1910
	S. A. Neave		S. A. Neave
	(ERC 461b)		
N	1713	N	1713
		RML	110660
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		21 ♂, 11 ♀ <u>Rhipicephalus appendiculatus</u>
	<u>Cobus defassa</u>		<u>Kobus ellipsipymnus</u>
	Plains N of Lake Edward, Uganda, B.E. Africa		Plains N. of Lake Edward (00.25 S, 29.30 E), Uganda
	X.1910		X.1910
	S.A. Neave		S. A. Neave
	(E.R.C. 462)		
N	1714	N	1714
		RML	110661
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s (not typical)		14 ♂, 6 ♀ <u>Rhipicephalus</u> sp.
	<u>Tragelaphus spekei</u>		<u>Tragelaphus spekei</u>
	Entebbe, Uganda, B.E. Africa		Entebbe (00.04 N, 32.28 E), Uganda
	9.IX.1911		9.IX.1911
	S. A. Neave		S. A. Neave
	(E.R.C. 464)		This is <u>Rhipicephalus</u> species III of Yeoman & Walker (1967)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1715	N	1715
		RML	110662
	<u>Amblyomma cohaerens</u> 1 ♀		1 ♀ <u>Amblyomma cohaerens</u>
	Off grasses		Off grasses
	N.W. Ankole, Uganda, B.E. Africa		N.W. District of Ankole (00.30 S, 30.30 E), Uganda
	X.1911		X.1911
	S. A. Neave		S. A. Neave
	(E.R.C. 471)		
N	1716	N	1716
		RML	66575
	<u>Rhipicephalus dux</u> 2 ♂, 2 ♀		3 ♂, 1 ♀ <u>Rhipicephalus dux</u>
	Off grasses		Off grasses
	N.W. Ankole, Uganda, B.E. Africa		N.W. District of Ankole (00.30 S, 30.30 E), Uganda
	X.1911		X.1911
	S. A. Neave		S. A. Neave
	(E.R.C. 471b)		
N	1717	N	1717
		RML	110663
	<u>Amblyomma</u> sp. larvae		6 L <u>Amblyomma</u> sp.
	<u>Cobus thomasi</u>		<u>Kobus kob thomasi</u>
	Kafu River, Ungoro, Uganda, B.E. Africa		Kafu River (00.05 S, 30.09 E), Uganda
	XII.1911		XII.1911
	S. A. Neave		S. A. Neave
	(E.R.C. 475)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1718	N	1718
		RML	110664
	<u>Ixodes</u> sp. N's L's <u>Haemaphysalis</u> sp. N's, L's		2 N, 3 L <u>Ixodes</u> sp. 4 N, 9 L <u>Haemaphysalis</u> sp.
	<u>Gultera cristata</u>		<u>Guttera edouardi sethsmithi</u>
	Budongo Forest, Ungoro, Uganda, B.E. Africa		Budongo Forest (01.45 N, 31.35 E), District of Bunyoro, Uganda
	4.XII.1911		4.XII.1911
	S. A. Neave		S. A. Neave
	(E.R.C. 479)		
N	1719	N	1719
		RML	110665
	<u>Amblyomma petersi</u> ♂'s, ♀'s		10 ♂, 1 ♀ <u>Amblyomma rhinocerotis</u>
	Six miles E. of Palango Station (3,700 ft), R. Nile, Uganda, B.E. Africa		Six miles E. of Palango (01.54 N, 32.22 E), District of Lango, Uganda (1128 m)
	10.I.1912		10.I.1912
	R. Paske Smith		R. Paske Smith
	(E.R.C. 481)		
N	1720	N	1720
		RML	110666
	<u>Amblyomma petersi</u> ♀'s		5 ♀ <u>Amblyomma rhinocerotis</u>
	Six miles E of Palango Station (3,700 ft), R. Nile, Uganda, B.E. Africa		Six miles E. of Palango (01.54 N, 32.22 E), District of Lango, Uganda (1128 m)
	10.I.1912		10.I.1912
	R. Paske Smith		R. Paske Smith
	(E.R.C. 482)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1721	N	1721
		RML	48991
	<u>Amblyomma petersi</u> ♂'s, ♀'s		12 ♂, 1 ♀ <u>Amblyomma rhinocerotis</u>
	Six miles E. of Palango Station (3,700 ft), R. Nile, Uganda, B.E. Africa		Six miles E. of Palango (01.54 N, 32.22 E), District of Lango, Uganda (1128 m)
	10.I.1912		10.I.1912
	R. Paske Smith		S. A. Neave
	(E.R.C. 483)		Vial label cites S. A. Neave as collector.
	1 ♂, 1 ♀ to Prof. R. A. Cooley, Montana V.1928		The specimens sent to R. A. Cooley are now in the RML collection.
N	1722	N	1722
		RML	110667
	<u>Dermacentor rhinocerotis</u> ♂'s		5 ♂ <u>Dermacentor rhinocerinus</u>
	Six miles E. of Palango Station (3,700 ft), R. Nile, Uganda, B.E. Africa		Six miles E. of Palango (01.54 N, 32.22 E), District of Lango, Uganda (1128 m)
	10.I.1912		10.I.1912
	S. A. Neave		S. A. Neave
	(E.R.C. 483a)		
	1 ♂ to R. W. Mettam, Weybridge IV.1931		
	1 ♂ to H. S. Purchase IV.1931		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1723

Rhipicephalus pulchellus ♂'s

Cattle

Marsabit, B.E. Africa

X-XI.1911

Captain C. A. Neave

(E.R.C. 490)

N 1724

Amblyomma gemma 2 ♂, 1 ♀

Cattle

Marsabit, B.E. Africa

X-XI.1911

Captain C. A. Neave

(E.R.C. 490a)

(1 ♂, 1 ♀ mounted on a slide in cell with other Amblyommas)

N 1725

Dermacentor circumguttatus 1 ♀

Off grasses

Daro Forest, Toro, Uganda,
B.E. Africa

X.1911

S. A. Neave

(E.R.C. 460)

N 1723

RML 110668

6 ♂ Rhipicephalus pulchellus

Cattle

Marsabit (02.20 N, 37.59 E), Kenya

X-XI.1911

Captain C. A. Neave

The above total includes 2 ♂ pinned.

N 1724 MISSING

N 1725

RML 110669

1 ♀ Dermacentor circumguttatus

Off grasses

Daro Forest, District of Toro
(00.30 N, 30.30 E), Uganda

X.1911

S. A. Neave

Ticks retained from Report No. 6 of the Zoological Society of London,
Regent's Park, London, N.W., 15 July 1912:

ORIGINAL DETERMINATIONCURRENT STATUS

N	1726	N	1726
		RML	110670
	<u>Amblyomma dissimile</u> ♂'s		4 ♂ <u>Amblyomma dissimile</u>
	Tuberculated iguana		<u>Iguana iguana</u>
	Mexico		Mexico
	10.VI.1912		10.VI.1912
	(Z.S. 28)		
N	1727	N	1727
		RML	110671
	<u>Haemaphysalis</u> sp. Nymphs		41 N <u>Haemaphysalis</u> sp.
	Green lizard, <u>Lacerta ocellata</u>		<u>Lacerta lepida</u>
	S. Europe		Southern Europe
	30.V.1912		30.V.1912
	(Z.S. 29)		
N	1728	N	1728
		RML	110672
	<u>Aponomma gervaisi</u> var. <u>lucasi</u> ♂'s, 1 N		1 ♂, 1 N <u>Aponomma varanensis</u>
	Bengal monitor		Bengal monitor
	India		India
	24.V.1912		24.V.1912

ORIGINAL DETERMINATIONCURRENT STATUS

N	1729	N	1729
		RML	110673
	<u>Ixodes ricinus</u> 1 ♀, N's, larvae		1 ♀, 31 N, 21 L <u>Ixodes ricinus</u>
	Deer		Deer
	Deerpark, Tregothnan, Cornwall		Deerpark, Tregothnan near Truro (50.16 N, 05.03 W), Cornwall, England
	12.VII.1912		12.VII.1912
	Received from J. Dew (gamekeeper)		Received from J. Dew (gamekeeper) Cited: Nuttall (1916: 332).
N	1730	N	1730 MISSING
	<u>Ixodes canisuga</u> ♀'s		
	Dogs		
	In kennels, Tregothnan, Cornwall		
	12.VII.1912		
	J. Dew (gamekeeper)		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1731

N 1731

RML 110674

Dermacentor venustus

(vial 1) 1 ♂, 1 ♀, 6 N, 12 eggs

Dermacentor andersoni(vial 2) 4 ♂ Dermacentor andersoni(vial 3) 1 ♀ Dermacentor andersoni(vial 4) 1 ♀ Dermacentor andersoni(vial 5) 19 N Dermacentor andersoni

(vial 6) 1 vial dry nymphal skins

Dermacentor andersoni(vial 7) 39 L Dermacentor andersoni(vial 8) + 2000 L Dermacentor andersoni(vial 9) 1 vial of eggs Dermacentor andersoni

Horses

Horses

Imported into British Columbia
from Yakima, Washington, U.S.
America

Imported into British Columbia from
Yakima (46.36 N, 120.31 W), Washington,
U.S.A.

V.1912

V.1912

Dr. C. Gordon Hewitt, Dominion
Entomologist, Central Experiment
Farm, Ottawa, Canada 22.VII.1912

Dr. C. Gordon Hewitt, Dominion Ento-
mologist, Central Experiment Farm,
Ottawa, Canada 22.VII.1912

[Used for raising experiments]
Oviposition commenced 9.VI.1912

Of the total cited for vial 1, 2N,
17 L and 12 eggs are pinned.
Cited: Nuttall (1915: 425); Hadwen &
Nuttall (1913: 299) incorrectly stated
the locality as Washington, D.C.; cited
& figured: Nuttall (1920: 2, pl. II,
figs. 1, 2); Edwards & Evans (1967: 595).

Raised in Cambridge: put in 5
tubes in cabinet in "Series."

- (a) eggs (with other tick ova)
- (b) larvae unfed
- (c) larvae gorged
- (d) nymphs unfed
- (e) nymphs empty skins whence
adults emerged
- (f) ♂'s
- (g) ♀'s unfed
- (h) ♀'s after ovipositing

ORIGINAL DETERMINATIONCURRENT STATUS

N 1732

N 1732

RML 110675

Amblyomma hebraeum 2 fully
gorged ♀'s

4 ♂, 4 ♀, 15 N, 83 L, 1 vial of eggs
Amblyomma hebraeum

Raised on ram

Origin probably Pretoria (25.45 S,
28.10 E), Republic of South Africa.
Raised in Cambridge, England

Rec'd 20.VII.1912

Rec'd 20.VII.1912

Rec'd from Mr. C. P. Lounsbury,
Chief, Division of Entomology,
Dept. of Agriculture, Pretoria,
S. Africa

Rec'd from Mr. C. P. Lounsbury,
Chief, Division of Entomology,
Dept. of Agriculture, Pretoria,
S. Africa

Of those raised: 2 ♂, 2 ♀ mounted
in cells on slides II.1915
2 ♂, 2 ♀ pinned
2 slides with larvae

Above total includes 2 ♂, 2 ♀ pinned.
This collection also contains the
following material, all dry:

Raised in Cambridge put in box
"series" complete
(a) eggs (with other tick ova)
(b) larvae (unfed)
(c) larvae (gorged)
(d) empty larval skins
(e) nymphs (unfed)
(f) nymphs (gorged)
(g) empty nymphal skins
(h) ♂'s unfed
(i) ♀'s unfed
(j) ♀'s gorged

1 vial ♀'s
1 vial ♂'s
1 vial nymphal skins
1 vial unfed N's plus larval skins
1 vial adults plus nymphal skins
1 vial larval skins
Cited: Nuttall (1915: 409);
Nuttall (1919: 394); cited &
figured: Nuttall (1920: 1, Pl. I,
figs. 1, 2, 4).

An additional 7 pinned ♂ are in the
BM(NH) collection

1732 (Distribution)

- 1 ♂, 1 ♀ to Dr. S. Hadwen, Canada 10.X.1913
 1 ♂, 1 ♀ to Dr. K. F. Meyer, University of California, Berkeley 15.XI.1913
 1 ♂, 1 ♀, N's, L's to Dr. Lajos Gozony, Univ. Budapest, Hungary 23.VI.1914
 1 ♂, 2 ♀, 2 N, L's to Prof. Dr. Dahl, Berlin Museum VII.1914
 Some (sex/stage not stated) to Prof. O. Dobescq, Montpellier, France 10.II.1914
 1 ♂, 2 ♀, 2 N, L's to Prof. Dr. S. Schenkling, Deutsches Entomol. Museum VII.1914
 1 ♂, 2 ♀, 2 N, L's to Dr. R. Gestro, Museo Civico di Storia Nat., Genova VII.1914
 1 ♂, 1 ♀ to Dr. Kudicke, Dar es Salaam, G.E.A. 22.VII.1914
 Many, all stages to Prof. Wheeler, Boston, Mass. 20.II.1915
 2 ♂, 3 ♀, 2 N, L's to Launcelot Harrison, Australia 9.V.1919
 2 ♂, 3 ♀, 2 N, L's to Prof. M. Jesus Maynar, Zaragoza, Spain 10.V.1919
 2 ♂, 3 ♀, 2 N, L's to Prof. Poulton, Oxford 26.V.1919
 2 ♂, 3 ♀, 2 N, L's to Prof. E. Hindle, Cambridge 24.IX.1919
 2 ♂, 3 ♀, 2 N, L's to Major Lothian, Sch. Hygiene, Blackpool 25.IX.1919
 1 ♂, 1 ♀, N's, L's to Major J. E. M. Boyd, Cambridge 20.XII.1919
 1 ♂, 1 ♀, N's, L's to Dr. J. Gordon-Thompson, London Sch. Trop. Med. 8.I.1920
 1 ♂, 1 ♀, N's, L's to Dr. R. W. Hegner, Johns Hopkins Univ., Baltimore 8.III.1920
 1 ♂, 1 ♀, N's, L's to Dr. R. J. Tillyard, Nelson, N.Z. VI.1920
 1 ♂, 1 ♀, N's, L's to Prof. Jules Bordet, Bruxelles, Belgium 30.VI.1920
 3 ♂, 3 ♀ to Prof. E. Brumpt, Paris
 2 ♂, 2 ♀ to Prof. Sadao Yoshida at Cambridge 21.XII.1921
 2 ♂, 2 ♀ to P. A. Buxton at Cambridge 10.II.1921
 2 ♂, 2 ♀ to Prof. Dr. D. A. de Yong at Cambridge 8.IV.1921
 2 ♂, 2 ♀ to Prof. G. Hedger-Wallace, Univ. of Wales, Cardiff 1921
 2 ♂, 2 ♀ to S. H. Daukes, Wellcome Bureau, London 9.I.1924
 1 ♂, 1 ♀, N's, L's, eggs to Dr. E. Roubaud, Inst. Pasteur, Paris 12.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to Prof. J. Hjort, Univ. Christiana, Norway 12.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to Dr. A. Watkins Pitchford, Army Vet. Sch. Thornhill, Aldershot 12.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to L.P.W. Renouf, Univ. College, Cork, Ireland 12.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to W.A. Pool, Indian Civil Vet. Dept. 12.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to Dr. Wm. Parry Morgan, Publ. Hlth. Lab. Cardiff 12.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to J.E.M. Mellor, Malvern College 16.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to Prof. A. Bettencourt, Inst. Camara Pestana, Lisbon 7.XI.1922
 1 ♂, 1 ♀, N's, L's, eggs to Prof. E. Brumpt, L'École de Médecine, Paris 12.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to I.C. Ross, Univ. of Sydney, Australia
 ♂'s, ♀'s, N's, L's to Dr. E. Pavlovsky, Leningrad 9.X.1925
 ♂'s, ♀'s, N's, L's to Prof. R. A. Cooley V.1928
 ♂'s, ♀'s, N's, L's to Dr. A. C. Reed, San Francisco 30.V.1929
 ♂'s, ♀'s, N's, L's to Prof. J. Drobohlav, Prague 30.V.1929
 2 ♂, 2 ♀, 2 N (unfed & fed) L's (unfed & fed) to Prof. R. Matheson, Cornell 27.V.1929
 1 ♂, 1 ♀ to Prof. E. Malvoz, Liège 30.V.1929
 1 ♂, 1 ♀ to E.T. Boardman, Univ. Florida, Gainesville 30.V.1929
 N's, L's to R.W. Mettam, Weybridge IV.1931
 N's, L's to H.S. Purchase IV.1931

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1733	N	1733
		RML	110676
	<u>Hyalomma syriacum</u> 2 ♂'s		2 ♂ <u>Hyalomma aegyptium</u>
	Tortoises		Tortoises
	Woolacombe, North Devon		Woolacombe (51.10 N, 04.13 W), Somerset, England
	20.VII.1912		20.VII.1912
	Rec'd from Mr. Fred Sanger		Rec'd from Mr. Fred Sanger
N	1734	N	1734
		RML	66621
	<u>Ornithodoros tholozani</u> (11 specimens)		1 ♂, 3 ♀, 6 N <u>Ornithodoros tholozani</u>
	Quetta, Baluchistan		Quetta (30.12 N, 67.00 E), Pakistan
	Rec'd 18.VII.1912		Rec'd 18.VII.1912
	Rec'd from Major G.E.F. Stammers, R.A.M.C.		Rec'd from Major G.E.F. Stammers, R.A.M.C.
N	1735	N	1735
		RML	110677
	<u>Dermacentor albipictus</u> ♂'s, ♀'s		8 ♂ <u>Dermacentor albipictus</u>
	Horse		Horse
	Mistatim, Saskatchewan, Canada		Mistatim (52.52 N, 103.22 W), Saskatchewan, Canada
	6.VI.1912		6.VI.1912
	Maurice O'Connell		Maurice O'Connell
			1 ♂ of the above total is mounted on a slide

ORIGINAL DETERMINATIONCURRENT STATUS

N

1736

N

1736

RML

110678

Ixodes percavatus var.
rothschildi ♀ & 6 N's

10 ♀, 6 N Ixodes rothschildi

Found attached to throat of a dead
Herring Gull (Larus argentatus)

Larus argentatus

Sands at Perranporth, N.W. Cornwall

Sands at Perranporth (50.20 N,
05.09 W), Cornwall, England

15.VI.1912

15.VI.1912

L.P.W. Renouf (Trinity College,
Cambridge)

L.P.W. Renouf (Trinity College,
Cambridge)

[Fragments of ♀'s & N's on bird
skin, mounted dry in cell on slide]

Cited: Nuttall (1916: 329);
Arthur (1953: 111) (1963: 134)
lists 10 ♀, 5 N in this collection;
Thompson (1957: 214).

Slide missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1737

N 1737

RML 110679

Haemaphysalis leachi larvae
(alive), ♀'s24 ♂, 101 ♀, 9 N, 1 vial of eggs
Haemaphysalis leachi
(Collection in 8 separate vials)

Jackal

Canis aureusPathological Laboratory, Nairobi,
B.E. Africa

Nairobi (01.17 S, 36.49 E), Kenya

Rec'd 23.III.1912

Rec'd 23.III.1912

Rec'd from Dr. R. E. Montgomery

Rec'd from Dr. R. E. Montgomery

Cited: Nuttall (1913C: 94);
Nuttall & Warburton (1915: 536).

- 1 ♂, 1 ♀ to Dr. S. Hadwen,
British Columbia, Canada
10.X.1913.
- 1 ♂, 1 ♀ to Dr. K. F. Meyer,
Univ. California, Berkeley
15.XI.1913.
- 1 ♂, 1 ♀ to Prof. Dr. Dahl,
Berlin Museum VII.1914.
- 1 ♂, 1 ♀ to Prof. Dr. Schenkling,
Deutsches Entomol. Museum
VII.1914.
- 1 ♂, 1 ♀ to Prof. Dr. Gestro, Museo
Civico di Storia Nat., Genova
VII.1914.
- All stages to Prof. R. A. Cooley,
Montana V.1928.
- Some (sex/stage not stated) to
R.W. Mettam, Weybridge IV.1931.
- 1 ♂, 1 ♀ to H.S. Purchase IV.1931.

Ten tubes of ticks purchased from F. V. Sherrin (Taxidermist), The Limes, Nightingale Road, Hampton, Middlesex, 12 July 1912:

ORIGINAL DETERMINATIONCURRENT STATUS

N	1738, a, b	N	1738, a, b
		RML	110680
	(1738) <u>Amblyomma varium</u> ♂		(1738) 1 ♂ <u>Amblyomma pictum</u>
	(a) <u>Amblyomma incisum</u> 2 ♂		(a) 2 ♂ <u>Amblyomma incisum</u>
	(b) <u>Amblyomma</u> sp. N's		(b) 4 N <u>Amblyomma</u> sp.
	Large Cavy		Probably <u>Cavia</u> sp.
	Bonasica, British Guiana		Possibly Bonasika River (06.45 N, 58.30 W), Guyana
	IV.1912		IV.1912
N	1739	N	1739
		RML	110681
	<u>Aponomma hydrosauri</u> N's		2 N <u>Aponomma hydrosauri</u>
	Snake (<u>Notechis scutatus</u>)		<u>Notechis scutatus</u>
	Tasmania, Australia		Tasmania, Australia
	IV.1912		IV.1912
N	1740	N	1740
		RML	110682
	<u>Ixodes</u> sp. N's & L		21 N, 3 L <u>Ixodes</u> sp.
	Lizard (<u>Lacerta ocellata</u>)		<u>Lacerta lepida</u>
	Near Tunisia, N. Africa		Near Tunisia
	IV.1912		IV.1912

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1741	N	1741
		RML	110683
	<u>Amblyomma mantiquirens</u> ♂'s, ♀'s, N's		9 ♂, 1 ♀, 3 N <u>Amblyomma naponense</u>
	Great anteater		<u>Myrmecophaga tridactyla</u>
	Bonasica, British Guiana		Possibly Bonasika River (06.45 N, 58.30 W), Guyana
	IV.1912		IV.1912
N	1742	N	1742
		RML	110684
	<u>Ixodes</u> sp. (mutilated) N's		2 N <u>Ixodes</u> sp.
	<u>Tachychromus tachydromoides</u>		<u>Tachydromus tachydromoides</u>
	Ning-po, Che-Kiang, China		Ning Po (29.53 N, 121.33 E), Chekiang, Peoples Republic of China
	IV.1912		IV.1912
N	1743	N	1743 MISSING
	<u>Ixodes ricinus</u> N's		
	Lizard (<u>Lacerta agilis</u>)		
	Kiev, Russia		
	IV.1912		
N	1744	N	1744
		RML	110685
	<u>Ixodes</u> sp. (mutilated) N's		13 N <u>Ixodes</u> sp.
	Lizard (<u>Lacerta ocellata</u>)		<u>Lacerta lepida</u>
	Tangiers, Morocco, N. Africa		Tangier (35.48 N, 05.45 W), Morocco
	IV.1912		IV.1912

ORIGINAL DETERMINATIONCURRENT STATUS

N 1745

Aponomma hydrosauri 1 ♀
 Snake (Denesonia superba)
 Tasmania, Australia
 IV.1912

N 1745

RML 110686
 1 ♀ Aponomma hydrosauri
Denisonia superba
 Tasmania, Australia
 IV.1912

N 1746

Amblyomma naponense ♂'s, ♀
 Peccary
 Bonasica, British Guiana
 IV.1912

N 1746

RML 110687
 4 ♂, 3 ♀ Amblyomma naponense
 Probably Tayassu tajacu
 Possibly Bonasika River (06.45 N,
 58.30 W), Guyana
 IV.1912

N 1747

Amblyomma marmoreum 2 ♂'s
 Puff adder (Bitis arietans)
 Yatta Plains, Brit. E. Africa
 IV.1912
 1 ♂ to Prof. R. A. Cooley, 1928

N 1747

RML 110688
 1 ♂ Amblyomma sparsum
Bitis arietans
 Yatta Plains (02.00 S, 38.00 E),
 Kenya
 Cited as 2 ♂ by Theiler & Salisbury
 (1959: 112).

Ticks received back from the Entomological Research Committee (per Mr. Marshall), London, S.W., 1 August 1912: [Ex. Report No. 23]

ORIGINAL DETERMINATIONCURRENT STATUS

N	1748	N	1748
		RML	110689
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s (small)		13 ♂, 14 ♀ <u>Rhipicephalus appendiculatus</u>
	Oxen		Oxen
	Mombasa, B.E. Africa		Mombasa (04.03 S, 39.40 E), Kenya
	10.III.1912		10.III.1912
	R. P. Thomas		R. P. Thomas
	[E.R.C. 496]		
N	1749	N	1749
		RML	110690
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s (remarkably variable in size)		39 ♂, 23 ♀ <u>Rhipicephalus appendiculatus</u>
	Oxen		Oxen
	Mumias, Kavirondo, B.E. Africa		Mumias (00.20 S, 34.29 E), Kenya
	10.VII.1911		10.VII.1911
	W. Kennedy		W. Kennedy
	[E.R.C. 497]		
N	1750	N	1750
		RML	110691
	<u>Rhipicephalus</u> sp. N's		7 N <u>Rhipicephalus</u> sp.
	Oxen		Oxen
	Magadi Railway, B.E. Africa		Magadi Railway between Magadi (01.54 S, 36.17 E) and Konza (01.45 S, 37.07 E), Kenya
	I.1912		I.1912
	C. W. Woodhouse		C. W. Woodhouse
	[E.R.C. 517]		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1751

N 1751

RML 110692

Dermacentor rhinocerotis 2 ♂, 2 ♀1 ♂, 2 ♀ Dermacentor rhinocerinus

Grass

Grass

Magadi Railway, B.E. Africa

Magadi Railway between Magadi
(01.54 S, 36.17 E) and Konza
(01.45 S, 37.07 E), Kenya

I.1912

I.1912

C. W. Woodhouse

C. W. Woodhouse

[E.R.C. 537]

1 ♂, 1 ♀ to J. de Meza, Zomba,
Nyasaland 19.II.1916

N 1752

N 1752

RML 110693

Aponomma exornatum 2 ♂, 1 ♀2 ♂, 1 ♀ Aponomma exornatum

Land Monitor

Land Monitor

Camp, Upper Shire, Nyasaland,
B.C. AfricaCamp, Liwonde (15.04 S, 35.13 E),
Malawi

27.IX.1911

27.IX.1911

J. B. Davey

J. B. Davey

[E.R.C. 541]

ORIGINAL DETERMINATIONCURRENT STATUS

N 1753

Aponomma exornatum ♂'s, N's

Land Monitor

Camp, Upper Shire, Nyasaland,
B.C. Africa

27.IX.1911

J. B. Davey

[E.R.C. 542]

N 1753

RML 110694

6 ♂, 3 N Aponomma exornatum

Land Monitor

Camp, Liwonde (15.04 S, 35.13 E),
Malawi

27.IX.1911

J. B. Davey

N 1754

Rhipicephalus maculatus 2 ♂

Grasses

Voi, B.E. Africa

8-10.II.1912

S. A. Neave

[E.R.C. 546]

N 1754

RML 110695

2 ♂ Rhipicephalus maculatus

Grasses

Voi (03.23 S, 38.34 E), Kenya

8-10.II.1912

S. A. Neave

Ticks received from Dr. J. G. Parham, Government Bacteriologist, Zanzibar,
British East Africa, 4 July 1912

N 1755

Rhipicephalus appendiculatus

Donkey

Mtamani, Pemba Island, B.E. Africa

1.V.1912

J. G. Parham

N 1755

RML 110696

8 ♂, 14 ♀ Rhipicephalus appendiculatus

Donkey

Probably Mtemani (of which there are at
least 25 possible localities)
Pemba Island, Tanzania

1.V.1912

J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N	1756	N	1756	MISSING
	<u>Rhipicephalus appendiculatus</u> (all stages)			
	Goat			
	Mkokotoni, B.E. Africa			
	30.IV.1912			
	J. G. Parham			
N	1757	N	1757	
		RML	110697	
	<u>Rhipicephalus appendiculatus</u>		36 ♂, 55 ♀ <u>Rhipicephalus appendiculatus</u>	
	Cow		Cow	
	Mtamani, Pemba Island, B.E. Africa		Probably Mtemani (of which there are at least 25 possible localities), Pemba Island, Tanzania	
	1.V.1912		1.V.1912	
	J. G. Parham		J. G. Parham	
	2 ♂, 2 ♀ to Prof. E. Malvoz, Liège 30.V.1929			
N	1758, a	N	1758, a	
		RML	110698	
	(1758) <u>Amblyomma gemma</u> 2 ♂, 2 ♀		(1758) 1 ♀ <u>Amblyomma gemma</u>	
	(a) <u>Rhipicephalus appendiculatus</u>		(1758) 2 ♀ <u>Amblyomma lepidum</u>	
			(a) 6 ♂, 5 ♀, 6 N <u>Rhipicephalus</u> <u>appendiculatus</u>	
	Cow		Cow	
	Mkokotoni, B.E. Africa		Mkokotoni (05.52 S, 39.15 E), Zanzibar Island, Tanzania	
	30.IV.1912		30.IV.1912	
	J. G. Parham		J. G. Parham	

ORIGINAL DETERMINATIONCURRENT STATUS

N	1759	N	1759	MISSING
	<u>Rhipicephalus appendiculatus</u>			
	Bullock			
	Mtamani, Pemba Island, B.E. Africa			
	1.V.1912			
	J. G. Parham			
	1 ♂, 1 ♀ to Dr. Lajos Gozony, Univ. Budapest, Hungary 23.VI.1914			
N	1760	N	1760	MISSING
	<u>Rhipicephalus appendiculatus</u>			
	Goat			
	M'Koani, Pemba Island, B.E. Africa			
	6.V.1912			
	J. G. Parham			
	1 ♂, 1 ♀ to Dr. K. F. Meyer Univ. California, Berkeley 15.XI.1913			
N	1761	N	1761	
		RML	110699	
	<u>Rhipicephalus appendiculatus</u>		61 ♂, 73 ♀ <u>Rhipicephalus appendiculatus</u>	
	Donkey		Donkey	
	Utani, Pemba Island, B.E. Africa		Probably Utaani (of which there are at least 15 possible localities), Pemba Island, Tanzania	
	1.V.1912		1.V.1912	
	J. G. Parham		J. G. Parham	

ORIGINAL DETERMINATIONCURRENT STATUS

N	1762, a	N	1762, a
		RML	110700
	(1762) <u>Rhipicephalus appendiculatus</u>		(1762) 121 ♂, 112 ♀, 18 N <u>Rhipicephalus appendiculatus</u>
	(a) <u>Boophilus australis</u> ♀'s		(1762) 1 ♂ <u>Amblyomma variegatum</u>
			(a) 21 ♀ <u>Boophilus microplus</u>
	Donkey		Donkey
	Jambagome, Pemba Island, B.E. Africa		Jambangome (05.21 S, 39.42 E), Pemba Island, Tanzania
	6.V.1912		6.V.1912
	J. G. Parham		J. G. Parham
N	1763	N	1763
		RML	110701
	<u>Rhipicephalus appendiculatus</u>		9 ♂, 8 ♀, 6 N <u>Rhipicephalus appendiculatus</u>
	Donkey		Donkey
	Chake-Chake, Pemba Island, B.E. Africa		Chake-Chake (05.15 S, 39.46 E), Pemba Island, Tanzania
	2.V.1912		2.V.1912
	J. G. Parham		J. G. Parham
N	1764	N	1764
		RML	110702
	<u>Rhipicephalus appendiculatus</u>		44 ♂ 44 ♀, 1 N <u>Rhipicephalus appendiculatus</u>
	Donkey		Donkey
	Wati, B.E. Africa		Perhaps Wete (05.04 S, 39.43 E), Tanzania
	2.V.1912		2.V.1912
	J. G. Parham		J. G. Parham

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1765	N	1765
		RML	110703
	<u>Rhipicephalus appendiculatus</u>		51 ♂, 47 ♀, 1 N <u>Rhipicephalus appendiculatus</u>
	Bull		Bull
	M'gabarouni, Pemba Island, B.E. Africa		Probably Mzambarauni (05.23 S, 39.38 E) Pemba Island, Tanzania
	1.V.1912		1.V.1912
	J. G. Parham		J. G. Parham
N	1766	N	1766 MISSING
	<u>Rhipicephalus appendiculatus</u>		
	Camel		
	Zanzibar Town, B.E. Africa		
	26.IV.1912		
	J. G. Parham		
N	1767, a	N	1767, a
		RML	110704
	(1767) <u>Boophilus australis</u> ♀'s (a) <u>Rhipicephalus appendiculatus</u>		(1967) 5 ♀ <u>Boophilus microplus</u> (a) 6 ♂ <u>Rhipicephalus appendiculatus</u>
	Bullock		Bullock
	Chuckwani, B.E. Africa		Chukwani (06.14 S, 39.13 E), Zanzibar Island, Tanzania
	26.IV.1912		26.IV.1912
	J. G. Parham		J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N	1768	N	1768	MISSING
	<u>Rhipicephalus appendiculatus</u>			
	Bull			
	Chake-Chake, Pemba Is., B.E. Africa			
	2.V.1912			
	J. G. Parham			
	Given to D. S. Mac Logan			
	12.X.1938			
N	1769	N	1769	MISSING
	<u>Rhipicephalus appendiculatus</u>			
	Cow			
	M'Koani, Pemba Island, B.E. Africa			
	6.V.1912			
	J. G. Parham			
N	1770	N	1770	
		RML	110705	
	<u>Rhipicephalus appendiculatus</u>		50 ♂, 51 ♀, 2 N <u>Rhipicephalus appendiculatus</u>	
	Goat		Goat	
	Utani, Pemba Island, B.E. Africa		Probably Utaani (of which there are at least 15 possible localities), Pemba Island, Tanzania	
	1.V.1912		1.V.1912	
	J. G. Parham		J. G. Parham	

ORIGINAL DETERMINATIONCURRENT STATUS

N	1771	N	1771
		RML	110706
	<u>Boophilus australis</u>		6 ♀ <u>Boophilus microplus</u>
	Cow		Cow
	M'Koani, Pemba Island, B.E. Africa		Mkoani (05.22 S, 39.39 E), Pemba Island, Tanzania
	6.V.1912		6.V.1912
	J. G. Parham		J. G. Parham
N	1772	N	1772
		RML	110707
	<u>Rhipicephalus appendiculatus</u>		19 ♂, 22 ♀ <u>Rhipicephalus appendiculatus</u>
	Donkey		Donkey
	Jambagome, Pemba Island, B.E. Africa		Jambangome (05.21 S, 39.42 E), Pemba Island, Tanzania
	6.V.1912		6.V.1912
	J. G. Parham		J. G. Parham
	1 ♂, 1 ♀ to Dr. J. G. Parham Portuguese East Africa 18.IV.1913. 1 ♂, 1 ♀ to N.Y. National Museum 18.IV.1913.		
N	1773	N	1773
		RML	110708
	<u>Rhipicephalus appendiculatus</u>		1 ♂, 2 ♀ <u>Rhipicephalus appendiculatus</u>
	Donkey		Donkey
	M'Koani, Pemba Island, B.E. Africa		Mkoani (05.22 S, 39.39 E), Pemba Island, Tanzania
	6.V.1912		6.V.1912
	J. G. Parham		J. G. Parham

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1774, a	N	1774, a
		RML	110709
	(1774) <u>Boophilus australis</u> (a) <u>Rhipicephalus evertsi</u>		(1774) 7 ♀ <u>Boophilus microplus</u> (a) 2 ♂, 1 ♀ <u>Rhipicephalus evertsi</u>
	Donkey		Donkey
	Jambagome, Pemba, Is., B.E. Africa		Jambangome (05.21 W, 39.42 E), Pemba Island, Tanzania
	6.V.1912		6.V.1912
	J. G. Parham		J. G. Parham
N	1775	N	1775
		RML	110710
	<u>Boophilus australis</u> ♀'s		2 ♀ <u>Boophilus microplus</u>
	Cow		Cow
	M'Koani, Pemba Is., B.E. Africa		Mkoani (05.22 S, 39.39 E), Pemba Island, Tanzania
	6.V.1912		6.V.1912
	J. G. Parham		J. G. Parham
N	1776	N	1776
		RML	110711
	<u>Rhipicephalus appendiculatus</u>		6 ♂, 5 ♀ <u>Rhipicephalus appendiculatus</u>
	Goat		Goat
	Chake-Chake, Pemba Is., B.E. Africa		Chake-Chake (05.15 S, 39.46 E), Pemba Island, Tanzania
	2.V.1912		2.V.1912
	J. G. Parham		J. G. Parham

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1777	N	1777
		RML	110712
	<u>Rhipicephalus appendiculatus</u>		42 ♂, 37 ♀ <u>Rhipicephalus appendiculatus</u>
	Goat		Goat
	Mzambarouni, Pemba Is., B.E. Africa		Mzambarauni (05.23 S, 39.38 E), Pemba Island, Tanzania
	1.V.1912		1.V.1912
	J. G. Parham		J. G. Parham
N	1778	N	1778 MISSING
	<u>Rhipicephalus evertsi</u> ♂'s		
	Cow		
	Mtamani, Pemba Is., B.E. Africa		
	1.V.1912		
	J. G. Parham		
N	1779, a, b	N	1779, a, b
		RML	110713
	(1779) <u>Boophilus australis</u> ♀'s		(1779) 3 ♀ <u>Boophilus microplus</u>
	(a) <u>Rhipicephalus appendiculatus</u> ♂, ♀'s		(a) 1 ♂, 2 ♀ <u>Rhipicephalus appendiculatus</u>
	(b) <u>Rhipicephalus pulchellus</u> ♂		(b) 3 ♂ <u>Rhipicephalus pulchellus</u>
	Goat		Goat
	Mahonda, B.E. Africa		Either Mahonda (06.00 S, 39.15 E), or (06.27 S, 39.28 E), Zanzibar Island, Tanzania
	30.IV.1912		30.IV.1912
	J. G. Parham		J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N 1780

N 1780

RML 110714

Rhipicephalus appendiculatus37 ♂, 13 ♀ Rhipicephalus appendiculatus

Donkey

Donkey

Bu-bu-bu, B.E. Africa

Bububu (06.06 S, 39.13 E),
Zanzibar Island, Tanzania

25.II.1912

25.II.1912

J. G. Parham

J. G. Parham

N 1781, a-e

N 1781, a-e

RML 110715

(1781) Rhipicephalus appendiculatus(1781) 11 ♂, 4 ♀, 1 N Rhipicephalus appendiculatus(a) Rhipicephalus pulchellus ♂'s(a) 2 ♂ Rhipicephalus pulchellus(b) Boophilus australis ♀(b) 1 ♀ Boophilus microplus(c) Rhipicephalus evertsi ♂(c) 1 ♂ Rhipicephalus evertsi(d) Haemaphysalis bispinosa ♀(d) 1 ♀ Haemaphysalis bispinosa(e) Amblyomma cohaerens ♂(e) 1 ♂ Amblyomma lepidum

Bullock

Bullock

Chukwani, B.E. Africa

Chukwani (06.14 S, 39.13 E),
Zanzibar Island, Tanzania

30.IV.1912

30.IV.1912

J. G. Parham

J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N 1782, a, b

N 1782, a, b

RML 110716

(1782) Rhipicephalus append-
iculatus(1782) 4 ♂, 5 ♀ Rhipicephalus
appendiculatus(a) Boophilus australis(1782) 1 ♂ Rhipicephalus pulchellus(b) Rhipicephalus evertsi 2 ♂'s(a) 5 ♀ Boophilus microplus(b) 2 ♂ Rhipicephalus evertsi

Bull

Bull

Kikwaguni, B.E. Africa

Kikwajuni (05.18 S, 39.47 E),
Pemba Island, Tanzania

30.IV.1912

30.IV.1912

J. G. Parham

J. G. Parham

N 1783, a-c

N 1783, a-c

RML 110717

(1783) Rhipicephalus append-
iculatus(1783) 6 ♂, 4 ♀ Rhipicephalus
appendiculatus(a) Haemaphysalis bispinosa ♀(a) 1 ♀ Haemaphysalis bispinosa(b) Boophilus australis ♀(b) 1 ♀ Boophilus microplus(c) Rhipicephalus evertsi ♂(c) 1 ♂ Rhipicephalus evertsi

Goat

Goat

Mahonda, B.E. Africa

Either Mahonda (06.00 S, 39.14 E),
or (06.27 S, 39.28 E), Zanzibar
Island, Tanzania

30.IV.1912

30.IV.1912

J. G. Parham

J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N 1784

Boophilus australis

Bullock

Mangapwani, B.E. Africa

27.IV.1912

J. G. Parham

N 1784

RML 110718

4 ♀ Boophilus microplus15 ♂, 11 ♀ Rhipicephalus appendiculatus

Bullock

Mangapwani (05.59 S, 39.12 E),
Zanzibar Island, Tanzania

27.IV.1912

J. G. Parham

Nuttall did not enter the R.
appendiculatus collection in his catalogue

N 1785, a

(1785) Rhipicephalus append-
iculatus(a) Boophilus australis 1 ♀

Goat

Mangapwani, B.E. Africa

27.IV.1912

J. G. Parham

N 1785, a

RML 110719

(1785) 9 ♂, 4 ♀ Rhipicephalus
appendiculatus(a) 1 ♀ Boophilus microplus

Goat

Mangapwani (05.59 S, 39.12 E),
Zanzibar Island, Tanzania

27.IV.1912

J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N 1786, a-c

(1786) Rhipicephalus appendiculatus(a) Boophilus australis ♀(b) Amblyomma gemma(c) Haemaphysalis bispinosa ♀

Bullock

Bu-bu-bu, B.E. Africa

29.IV.1912

J. G. Parham

N 1786, a-c

RML 110720

(1786) 2 ♂, 1 ♀ Rhipicephalus appendiculatus(a) 1 ♀ Boophilus microplus(b) 1 ♂ Amblyomma gemma(b) 3 ♂ Amblyomma lepidum(c) 1 ♀ Haemaphysalis bispinosa

Bullock

Bububu (06.06 S, 39.13 E), Zanzibar Island, Tanzania

29.IV.1912

J. G. Parham

N 1787, a-c

(1787) Rhipicephalus appendiculatus(a) Boophilus australis(b) Haemaphysalis bispinosa 3 ♂(c) Rhipicephalus pulchellus ♂

Bullock

Bet-el-Ras, B.E. Africa

29.IV.1912

J. G. Parham

N 1787, a-c

RML 110721

(1787) 7 ♂, 2 ♀ Rhipicephalus appendiculatus(a) 4 ♀ Boophilus microplus(b) 3 ♂ Haemaphysalis bispinosa(c) 1 ♂ Rhipicephalus pulchellus

Bullock

Bet-el-Ras (06.07 S, 39.13 E), Zanzibar Island, Tanzania

29.IV.1912

J. G. Parham

N 1788

Boophilus australis

Bullock

Mangapwani, B.E. Africa

27.IV.1912

J. G. Parham

N 1788

RML 110722

4 ♀ Boophilus microplus

Bullock

Mangapwani (05.59 S, 39.12 E), Zanzibar Island, Tanzania

27.IV.1912

J. G. Parham

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1789, a, b	N	1789, a, b
		RML	110723
	(1789) <u>Rhipicephalus appendiculatus</u>		(1789) 7 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>
	(a) <u>Amblyomma gemma</u>		(a) 2 ♂ <u>Amblyomma gemma</u>
	(b) <u>Boophilus australis</u>		(b) 3 ♀ <u>Boophilus microplus</u>
	Bullock		Bullock
	Bu-bu-bu, B.E. Africa		Bububu (06.06 S, 39.13 E), Zanzibar Island, Tanzania
	26.IV.1912		26.IV.1912
	J. G. Parham		J. G. Parham
N	1790, a-c	N	1790, a-c
		RML	110724
	(1790) <u>Rhipicephalus appendiculatus</u>		(1790) 1 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u>
	(a) <u>Boophilus australis</u>		(a) 1 ♀ <u>Boophilus microplus</u>
	(b) <u>Haemaphysalis bispinosa</u>		(b) 1 ♂ <u>Haemaphysalis bispinosa</u>
	(c) <u>Rhipicephalus pulchellus</u> ♂		(c) 1 ♂ <u>Rhipicephalus pulchellus</u>
	Bull		Bull
	Kikwaguni, B.E. Africa		Kikwajuni (05.18 S, 39.47 E), Pemba Island, Tanzania
	30.IV.1912		30.IV.1912
	J. G. Parham		J. G. Parham
N	1791	N	1791
		RML	110725
	<u>Rhipicephalus sanguineus</u>		46 ♂, 49 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Zanzibar Town, B.E. Africa		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	23.IV.1912		23.IV.1912
	J. G. Parham		J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N	1792	N	1792
		RML	110726
	<u>Rhipicephalus evertsi</u> ♂, ♀		1 ♂, 1 ♀ <u>Rhipicephalus evertsi</u>
	Bullock		Bullock
	Mangapwani, B.E. Africa		Mangapwani (05.59 S, 39.12 E), Zanzibar Island, Tanzania
	27.IV.1912		27.IV.1912
	J. G. Parham		J. G. Parham
N	1793	N	1793
		RML	110727
	<u>Rhipicephalus appendiculatus</u>		6 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u>
	Bullock		Bullock
	Mkokotoni, B.E. Africa		Mkokotoni (05.18 S, 39.41 E), Pemba Island, Tanzania
	25.IV.1912		25.IV.1912
	J. G. Parham		J. G. Parham
N	1794, a-c	N	1794, a-c
		RML	110728
	(1794) <u>Rhipicephalus append-</u> <u>iculatus</u>		(1794) 4 ♂, 1 ♀ <u>Rhipicephalus</u> <u>appendiculatus</u>
	(a) <u>Rhipicephalus pulchellus</u> 2 ♂		(a) 2 ♂ <u>Rhipicephalus pulchellus</u>
	(b) <u>Boophilus australis</u> ♀		(b) 1 ♀ <u>Boophilus microplus</u>
	(c) <u>Amblyomma gemma</u>		(c) 1 ♂ <u>Amblyomma lepidum</u>
	Bullock		Bullock
	Mkokotoni, B.E. Africa		Mkokotoni (05.18 S, 39.41 E), Pemba Island, Tanzania
	26.IV.1912		26.IV.1912
	J. G. Parham		J. G. Parham
			The vial label for 1794b is incorrectly labelled 1794a

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1795	N	1795
		RML	110729
	<u>Rhipicephalus appendiculatus</u>		8 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>
	Bullock		Bullock
	Zanzibar Town, B.E. Africa		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	22.IV.1912		22.IV.1912
	J. G. Parham		J. G. Parham
N	1796	N	1796
		RML	110730
	<u>Rhipicephalus appendiculatus</u>		14 ♂, 7 ♀ <u>Rhipicephalus appendiculatus</u>
	Horse		Horse
	Zanzibar Town, B.E. Africa		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	24.IV.1912		24.IV.1912
	J. G. Parham		J. G. Parham
N	1797	N	1797
		RML	110731
	<u>Rhipicephalus sanguineus</u> 1 ♂, N's & L's		1 ♂, 7 N, 2 L <u>Rhipicephalus sanguineus</u>
	Civet cat		<u>Viverra civetta</u>
	Mangapwani, B.E. Africa		Mangapwani (05.59 S, 39.12 E), Zanzibar Island, Tanzania
	26.IV.1912		26.IV.1912
	J. G. Parham		J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N 1798

N 1798

RML 110732

Rhipicephalus appendiculatus8 ♂, 3 ♀, 1 N, 1 L Rhipicephalus appendiculatus

Goat

Goat

Zanzibar Town, B.E. Africa

Zanzibar City (06.10 S, 39.11 E),
Zanzibar Island, Tanzania

24.IV.1912

24.IV.1912

J. G. Parham

J. G. Parham

N 1799

N 1799

RML 110733

Rhipicephalus appendiculatus ♂
(not typical)1 ♂ Rhipicephalus appendiculatus
(Tentative ID)

Dog

Dog

Mgambo, B.E. Africa

Mgambo (05.59 S, 39.18 E), Zanzibar
Island, Tanzania

23.IV.1912

23.IV.1912

J. G. Parham

J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N	1800	N	1800
		RML	110735
	<u>Dermacentor variabilis</u> 2 ♀'s		1 ♀ <u>Dermacentor variabilis</u>
	Raised on rabbit		Raised on rabbit
	Agassiz, British Columbia, Canada		Agassiz (49.14 N, 121.44W), British Columbia, Canada
	VII.1912		VII.1912
	Received from Dr. S. Hadwen		Received from Dr. S. Hadwen
	Received 21.VIII.1912		
N	1801	N	1801
		RML	110736
	<u>Dermacentor variabilis</u> 4 N		2 N <u>Dermacentor variabilis</u>
	Raised on rabbit		Raised on rabbit
	Agassiz, British Columbia, Canada		Agassiz (49.14 N, 121. 44 W), British Columbia, Canada
	VII.1912		VII.1912
	Received from Dr. S. Hadwen		Received from Dr. S. Hadwen
	Received 21.VIII.1912		
N	1802	N	1802
		RML	110737
	<u>Dermacentor variabilis</u> L (gorged)		2 N, 4 L <u>Dermacentor variabilis</u>
	Raised on rabbit		Raised on rabbit
	Agassiz, British Columbia, Canada		Agassiz (49.14 N, 121.44 W), British Columbia, Canada
	VII.1912		VII.1912
	Received from Dr. S. Hadwen		Received from Dr. S. Hadwen
	Received 21.VIII.1912		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1803	N	1803
		RML	110738
	<u>Dermacentor variabilis</u> L (unfed)		236 L <u>Dermacentor variabilis</u>
	Raised on rabbit		Raised on rabbit
	Agassiz, British Columbia, Canada		Agassiz (49.14 N, 188.44 W), British Columbia, Canada
	VII.1912		VII.1912
	Received from Dr. S. Hadwen		Received from Dr. S. Hadwen
	Received 21.VIII.1912		
N	1804	N	1804
		RML	71476
	<u>Haemaphysalis bispinosa</u> 1 ♂		1 ♂ <u>Haemaphysalis intermedia</u>
	Dog		Dog
	Recently brought from Nelore to Calcutta, India		Recently brought from Nelore (14.27 N, 80.01 E) to Calcutta (22.34 N, 88.24 E), India
	II-III.1911		II-III.1911
	(Ex Indian Mus. $\frac{1079}{17}$)		
N	1805	N	1805
		RML	105563
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		5 ♂, 4 ♀ <u>Rhipicephalus appendiculatus</u>
	Giraffe		<u>Giraffa camelopardalis</u>
	Shot 20 miles S.E. of Mulha Hill, near Mowa River, Kitui District, B.E. Africa		Shot 20 miles S.E. of Mulha Hill near Mowa River, Kitui District (01.11-S, 37.27 E), Kenya
	28.V.1911		28.V.1911
	S.W.J. Scholefield		S.W.J. Scholefield
	(E.R.C. 323a)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1806	N	1806 MISSING
	<u>Ixodes ricinus</u> ♀'s		
	Irish Sheep		
	22.VIII.1912		
	Rec'd from Mr. A. W. Noël Pillars, Veterinary Department, Municipal Building, Liverpool 29 August 1912.		
N	1807	N	1807
		RML	110739
	<u>Ixodes ricinus</u> L & N's		4 N, 577 L <u>Ixodes ricinus</u>
	Deer		Deer
	Tregothnan, Truro Cornwall		Tregothnan near Truro (50.16 N, 05.03 W), Cornwall, England
	2.IX.1912		2.IX.1912
	J. Dew		J. Dew
			Cited: Nuttall (1916: 332).
N	1808	N	1808
		RML	110740
	<u>Ixodes ricinus</u> ♂'s & ♀'s		15 ♂, 46 ♀ <u>Ixodes ricinus</u>
	Deer		Deer
	Tregothnan, Truro, Cornwall		Tregothnan near Truro (50.16 N, 05.03 W), Cornwall, England
	2.IX.1912		2.IX.1912
	J. Dew		J. Dew
	1 ♂, 1 ♀ to N.Y. National Museum 18.IV.1913		Cited: Nuttall (1916: 332).

Ticks received back from the Entomological Research Committee (ex.
Report No. 24) 1 October 1912:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1809	N	1809
		RML	110741
	<u>Amblyomma tholloni</u> ♂, ♀		1 ♂, 1 ♀ <u>Amblyomma tholloni</u>
	Elephant		<u>Loxodonta africana</u>
	Toro, B.E. Africa		Probably District of Toro (00.30 N, 30.30 E), Uganda
	11.II.1911		11.II.1911
	C. C. Gowdey		C. C. Gowdey
	[E.R.C. 551]		Cited: Robinson (1926: 252).
N	1810	N	1810
		RML	110742
	<u>Amblyomma</u> sp. N's		3 N <u>Amblyomma</u> sp.
	Dog		Dog
	Entebbe, Uganda, Africa		Entebbe (00.02 N, 32.30 E), Uganda
	7.VII.1911		7.VII.1911
	C. C. Gowdey		C. C. Gowdey
	[E.R.C. 555]		
N	1811	N	1811 MISSING
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s		
	Dog		
	Botkanu, West Africa		
	16.V.1912		
	J. J. Simpson		
	[E.R.C. 574]		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1812	N	1812 MISSING
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		
	Cows		
	Rowerse, Sierra Leone, W. Africa		
	28.IV.1912		
	J. J. Simpson		
	[E.R.C. 576]		
N	1813	N	1813
	<u>Amblyomma cohaerens</u> ♂'s, ♀'s, N's	RML	110743
	Buffalo		9 ♂, 5 ♀, 2 N <u>Amblyomma cohaerens</u>
	Katwe, Uganda		Buffalo
			Katwe (00.08 S, 29.52 E) or (00.47 S, 32.02 E) or (00.56 S, 30.52 E), Uganda
	11.II.1912		11.II.1912
	R. Fyffe		R. Fyffe
	[E.R.C. 590]		
	1 ♂, 1 ♀ to R. W. Mettam, Weybridge IV.1931		Cited: Robinson (1926: 110).
	1 ♂, 1 ♀ to H. S. Purchase IV.1931		Nymphal determination tentative
N	1814	N	1814 MISSING
	<u>Amblyomma nuttalli</u> 1 ♂ & 1 ♀		
	Tortoise		
	Near Kavirondo Border, Lumbwa District, Myanza, B.E. Africa		
	16.III.1912		
	C. M. Dobbs		
	(1 ♂, 1 ♀ mounted as slides II.1915)		
	[E.R.C. 592]		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1815

N 1815 MISSING

Hyalomma aegyptium ♂'s, ♀'s

Camel

Liongalani near Lake Rudolph, B.E.
Africa

1912

Capt. A. C. Saunders

[E.R.C. 595]

Collection of ticks received from Professor C. S. Motas (Director del
Instituto Nacional Bacteriologico), Bucharest Roumania, 16.IX.1912:-

N 1816

N 1816

RML 110744

Rhipicephalus bursa ♂'s, ♀'s6 ♂, 17 ♀ Rhipicephalus bursa

Cattle

Cattle

Roumania

Romania

1912

1912

C. S. Motas

C. S. Motas

N 1817

N 1817 MISSING

Ixodes ricinus ♂'s, ♀'s

Horses

Roumania

1912

C. S. Motas

1 ♂, 1 ♀ to Prof. R. Matheson,
Cornell 27.V.1929.1 ♂, 1 ♀ to Dr. A. C. Reed,
San Francisco 30.V.1929.1 ♂, 1 ♀ to Prof. J. Drbohlav,
Prague 30.V.1929.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1818

Rhipicephalus bursa ♂'s, ♀'s

Horses

Roumania

1912

C. S. Motas

1 ♂, 1 ♀ to D. S. Hadwen,
British Columbia, Canada 10.X.1913.
1 ♂, 1 ♀ to Dr. Lajos Gozony, Univ.
Budapest, Hungard 23.VI.1914.

N 1819

Rhipicephalus bursa ♂'s, ♀'s

Sheep

Roumania

1912

C. S. Motas

N 1820

Rhipicephalus bursa ♂'s, ♀'s

Sheep

Roumania

1912

C. S. Motas

1 ♂, 1 ♀ to N.Y. National Museum
18.IV.1913

N 1818

RML 66654

9 ♂, 19 ♀ Rhipicephalus bursa

Horses

Romania

1912

C. S. Motas

N 1819

RML 66653

12 ♂, 24 ♀ Rhipicephalus bursa

Sheep

Romania

1912

C. S. Motas

N 1820

RML 110745

8 ♂, 17 ♀ Rhipicephalus bursa

Sheep

Romania

1912

C. S. Motas

ORIGINAL DETERMINATIONCURRENT STATUS

N	1821, a	N	1821, a
	(1821) <u>Hyalomma aegyptium</u> ♂'s, ♀'s (a) <u>Dermacentor niveus</u> ♂'s, ♀	RML	102349 (1821) 2 ♂ <u>Hyalomma detritum</u> (a) 5 ♂, 1 ♀ <u>Dermacentor niveus</u>
	Deer		Deer
	Roumania		Romania
	1912		1912
	C. S. Motas		C. S. Motas
N	1822	N	1822
	<u>Amblyomma dissimile</u> ♂'s, 1 ♀	RML	110746 7 ♂, 1 ♀ <u>Amblyomma dissimile</u>
	<u>Boa constrictor</u>		<u>Boa constrictor</u>
	South America		South America
	20.IX.1912		20.IX.1912
	("Zool. Soc. No. 33")		
N	1823	N	1823
	<u>Ixodes hexagonus</u> 1 ♀ & 1 N	RML	110747 1 ♀, 1 N <u>Ixodes hexagonus</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	Quick Laboratory, Cambridge		Quick Laboratory, Cambridge (52.13 N, 00.08 E), England
	26.IX.1912		26.IX.1912 Cited: Nuttall (1916: 327).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1824	N	1824
		RML	110748
	<u>Dermacentor variabilis</u> larvae (alive)		1 ♂, 1 ♀, 682 L <u>Dermacentor variabilis</u>
	♀'s taken off horse		Parent ♀ from horse
	Glenora, Manitoba, Canada		Glenora (57.50 N, 131.24 W), Manitoba, Canada
	24.VI.1912		24.VI.1912
	Rec'd. from Dr. S. Hadwen (Agassiz) 10.X.1912		Rec'd. from Dr. S. Hadwen (Agassiz) 10.X.1912
	"Raising Experiments." Some have been preserved.		Cited & figured: Nuttall (1920: 3, pl. II, fig. 3).
	Ticks received from J. F. Valladares, Esq., Government Veterinary College, Madras, India, 12 October 1912:-		
N	1825	N	1825
		RML	110749
	<u>Rhipicephalus sanguineus</u> ♂'s & ♀'s		11 ♂, 21 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Madras, India		Madras (13.05 N, 80.17 E), India
	1912		1912
	J. F. Valladares		J. F. Valladares
N	1826, a	N	1826
		RML	110750
	(1826) <u>Haemaphysalis bispinosa</u> ♂'s, ♀'s, N's & L		(1826) 68 ♂, 8 ♀, 3 N <u>Haemaphysalis</u> <u>bispinosa</u>
	(a) <u>Hyalomma aegyptium</u> ♂'s, ♀'s N's & L		(a) <u>Hyalomma</u> sp. (see N3589)
	Cow		Cow
	Madras, India		Madras (13.05 N, 80.17 E), India
	1912		1912
	J. F. Valladares		J. F. Valladares Cited: Nuttall & Warburton (1915: 431)

ORIGINAL DETERMINATIONCURRENT STATUS

N 1827

N 1827 MISSING

Ornithodoros savignyi adults"Found in a place where cattle were
impounded"

Madras, India

1912

J. F. Valladares

1 ♂ to J. de Meza, Zomba Nyasaland
19.II.1916Ticks received from Professor Lignières (Director d'l Instituto Nacional
Bacteriologico), Buenos Aires, Argentine Republic, South America, 23.IX.1912:-

N 1828

N 1828

RML 110751

Boophilus sp. larvae (unfed)± 1000 L Boophilus microplus

Parents off cattle

Parents off cattle

Argentine Republic, S. America

Argentina

20.VIII.1912

20.VIII.1912

Lignières

Lignières

ORIGINAL DETERMINATIONCURRENT STATUS

N 1829

Boophilus annulatus ♀'s (gorged)

Cattle

Argentine Republic, S. America

20.I.1912

Lignièrès

1 ♀ to Dr. E. Roubaud, Institute Pasteur, Paris 12.X.1922.
 1 ♀ to Prof. J. Hjort, Univ. Christiana, Norway 12.X.1922.
 1 ♀ to Dr. A. Watkins Pitchford, Army Vet. Sch., Thornhill, Aldershot 12.X.1922.
 1 ♀ to L. P. W. Renouf, Biol. Dept. Univ. Coll, Cork, Ireland 12.X.1922
 1 ♀ to W. A. Pool Indian Civil Vet. Dept. 12.X.1922.
 1 ♀ to Dr. Wm. Parry Morgan, Publ. Hlth, Lab., Cardiff, Wales 12.X.1922.
 1 ♀ to J.E.M. Mellor, Malvern College, Malvern 16.X.1922.
 1 ♀ to Prof. A. Bettencourt Inst. Camara Pestana, Lisbon 7.XI.1922.
 1 ♀ to Prof. E. Brumpt, L'Ecole Medicine, Paris 12.X.1922.
 1 ♀ to I. C. Ross, Univ. of Sydney, Australia.

N 1830

Boophilus annulatus ♀'s (gorged)

Cattle

Peru, S. America

12.II.1912

N 1829

RML 110752

16 ♀ Boophilus microplus

Cattle

Argentina

20.I.1912

Lignieres

N 1830

RML 110753

21 ♀ Boophilus annulatus

Cattle

Peru

12.II.1912

This is true B. annulatus although Peru is well beyond the known range of this tick species. [But see also N 2162, 2163, 2510]

ORIGINAL DETERMINATIONCURRENT STATUS

N	1831	N	1831
		RML	110770
	<u>Boophilus annulatus</u> ♀'s (gorged)		26 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Peru, S. America		Peru
	14.X.1912		14.X.1912
N	1832	N	1832
		RML	110771
	<u>Ornithodoros megnini</u>		3 ♀, 5 N <u>Otobius megnini</u>
	Cattles' ears		Cattle
	Chile, S. America		Chile
	26.IV.1912		26.IV.1912
	M. Blier		M. Blier
			5 cast nymphal skins present
N	1833	N	1833 MISSING
	<u>Boophilus annulatus</u> ♂'s & ♀'s (♂'s without tail!)		
	Cattle		
	Peru, S. America		
	4.II.1911		
N	1834	N	1834
		RML	110772
	<u>Boophilus annulatus</u> ♀'s (bad condition)		30 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Peru, S. America		Peru
	3.I.1911		3.I.1911

ORIGINAL DETERMINATIONCURRENT STATUS

N 1835

N 1835

RML 110773

Boophilus australis larvae (alive)4 ♂, 1 ♀, 326 L Boophilus microplus

Parents off cattle

Parents off cattle

Argentine Republic, S. America

Argentina

20.VIII.1912

20.VIII.1912

Supposed to be infected

Slide missing

[Used for experiments on calf]

Raised in Cambridge

(a)

(b) larvae, unfed

(c) ♂'s

(d) ♀'s after ovipositing

1 slide of larvae mounted

Ticks received from Dr. J. W. Scott Macfie, Ilorin, Northern Nigeria, West Africa, 14.X.1912:-

N 1836

N 1836

RML 110774

Aponomma sp. 1 N1 N Amblyomma sp.

Chameleon

Chameleon

Ilorin, N. Nigeria, W. Africa

Ilorin (08.30 N, 04.33 E), Nigeria

11.VI.1912

11.VI.1912

Dr. J. W. Scott Macfie

Dr. J. W. Scott Macfie

John William Scott Macfie (1879-1948) pioneer worker in the study of mosquitoes and ceratopogonid midges. Worked in West Africa from 1910-1923 then joined Liverpool School of Tropical Medicine.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1837

Rhipicephalus sp. 1 ♂

Horse

Ilorin, N. Nigeria, W. Africa

5.VIII.1912

Dr. J. W. Scott Macfie

N 1837

RML 110775

1 ♂ Rhipicephalus senegalensis

Horse

Ilorin (08.30 N, 04.33 E), Nigeria

5.VIII.1912

Dr. J. W. Scott Macfie

N 1838

Amblyomma marmoreum 2 ♂'s

Hedgehog

Ilorin, N. Nigeria, W. Africa

26.II.1912

Dr. J. W. Scott Macfie

N 1838

RML 110776

2 ♂ Amblyomma nuttalliProbably Erinaceus albiventris

Ilorin (08.30 N, 04.33 E), Nigeria

26.II.1912

Dr. J. W. Scott Macfie

Cited: Theiler & Salisbury (1959; 115).

N 1839

Gekobia sp. (Mites)

Lizard

Ilorin, N. Nigeria, W. Africa

IX.1912

Dr. J. W. Scott Macfie

N 1839 MISSING

Ticks retained from the collection sent for determination by Dr. J. Burton Cleland, Bureau of Microbiology, Sydney, New South Wales, Australia, 2.IX.1912:-

ORIGINAL DETERMINATIONCURRENT STATUS

N 1840

N 1840

RML 110777

Boophilus australis ♀'s14 ♀ Boophilus microplus

Cattle

Cattle

Queensland, Australia

Queensland, Australia

1899

1899

N 1841

N 1841

RML 110778

Amblyomma moreliae 1 ♀1 ♀ Amblyomma moreliaeTiger Snake (Notechis scutatus)Notechis scutatus

Sydney, N. S. Wales, Australia

Sydney (33.52 S, 151.13 E),
N. S. Wales, Australia

III.1909

III.1909

N 1842

N 1842

RML 110779

Aponomma decorosum 1 ♀1 ♀ Aponomma decorosumIguana (Varanus sp.)Varanus sp.

Cobar, N.S. Wales, Australia

Cobar (31.30 S, 145.49 E), N.S. Wales,
Australia

?Date

?Date

Mr. Woollett

Mr. Woollett

ORIGINAL DETERMINATIONCURRENT STATUS

N	1843	N	1843
	<u>Aponomma decorosum</u> ♂'s	RML	110780
	Lace Monitor (<u>Varanus varius</u>)		35 ♂ <u>Aponomma decorosum</u>
	Dubbo, N.S. Wales, Australia		<u>Varanus varius</u>
	X.1911		Dubbo (32.15 S, 148. 36 E), N.S. Wales, Australia
	[2 ♂ mounted in cells with other Aponommas]		X.1911
			Slide missing Cited: Kaufman (1972: 359).
N	1844	N	1844
	<u>Aponomma decorosum</u> ♀'s & N's	RML	110781
	Lace Monitor (<u>Varanus varius</u>)		28 ♀, 4 N <u>Aponomma decorosum</u>
	Dubbo, N.S. Wales, Australia		<u>Varanus varius</u>
	X.1911		Dubbo (32.15 S, 148.36 E), N.S. Wales, Australia
	[2 ♀ mounted in cells with other Aponommas]		X.1911
			Slide missing Kaufman (1972: 370) incorrectly cites this collection as 28 ♂ <u>A. decorosum</u> .
			Note in vial "2 N removed 13/6/36 Bertram"
N	1845	N	1845
	<u>Aponomma</u> sp. N's	RML	110782
	Lace Monitor (<u>Varanus varius</u>)		10 N <u>Aponomma decorosum</u>
	Dubbo, N.S. Wales, Australia		<u>Varanus varius</u>
	X.1911		Dubbo (32.15 S, 148.36 E), N.S. Wales, Australia
			X.1911

ORIGINAL DETERMINATIONCURRENT STATUS

N	1846	N	1846	MISSING
	<u>Ixodes holocyclus</u> 1 ♀			
	Human arm			
	Sydney, N.S. Wales, Australia			
	XII.1909			
N	1847	N	1847	
	<u>Ixodes fecialis</u> 2 N	RML	110783	
	Native cat (<u>Dasyurus viverrinus</u>)		2 N <u>Ixodes fecialis</u>	
	N.S. Wales, Australia		<u>Dasyurus viverrinus</u>	
	22.I.1912		New South Wales, Australia	
	Mr. Steel		22.I.1912	
			Mr. Steel	
			Cited: Nuttall (1916: 327).	
N	1848	N	1848	
	<u>Ixodes holocyclus</u> 1 ♀, 2 N's	RML	66601	
	<u>Perameles nasuta</u>		1 ♀, 2 N <u>Ixodes holocyclus</u>	
	N.S. Wales, Australia		<u>Perameles nasuta</u>	
	8.VIII.1911		New South Wales, Australia	
	Mr. Steel		8.VIII.1911	
			Mr. Steel	
			Cited: Nuttall (1916: 329).	
N	1849	N	1849	
	<u>Ornithodoros talaje?</u> N's, larvae	RML	110784	
	Penguin (<u>Eudyptula minor</u>)		2 L <u>Ornithodoros capensis</u>	
	Perth, W. Australia		<u>Eudyptula minor</u>	
	20.V.1908		Perth (31.56 S, 115.50 E), Australia	
			20.V.1908	

ORIGINAL DETERMINATIONCURRENT STATUS

N 1850

Ixodes percavatus 2 ♀'sPenguin (Eudyptula minor)

Perth, W. Australia

1908

N 1850

RML 110785

3 ♀ Ixodes sp.Eudyptula minor

Perth (31.56 S, 115.50 E), Australia

1908

This collection in 2 vials. 2 ♀ are lacking capituli. The 3rd has no internal flange as in auritulus or pterodromae. It has the dorsal spur on palpal article I and cornua as in kohlsi but coxal spurs are like those of pterodromae. These specimens are not Ixodes kohlsi, I. eudyptidis, I. pterodromae or I. auritulus.
Cited: Nuttall (1916: 329).

N 1851

Haemaphysalis neumanni 1 ♀

Horse

Ballina, N.S. Wales, Australia

5.X.1911

N 1851

RML 69981

1 ♀ Haemaphysalis longicornis

Horse

Ballina (28.52 S, 153.33 E),
N.S. Wales, Australia

5.X.1911

Cited: Hoogstraal et al (1968: 1206).

N 1852

Haemaphysalis neumanni ♀'s (young)

Calf

Bonville, N.S. Wales, Australia

? Date

(Lab No. 6652)

N 1852

RML 110786

11 ♀ Haemaphysalis longicornis

Calf

Bonville, N.S. Wales, Australia

? Date

Ticks received from Dr. E. Maya, Assistant-Director of the Bacteriological Laboratory, Mauritius Island, Indian Ocean, 21 October 1912:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1853	N	1853
		RML	110787
	<u>Amblyomma variegatum</u> ♂'s		4 ♂ <u>Amblyomma variegatum</u>
	Bullocks		Bullocks
	Mauritius, Indian Ocean		Mauritius
	20.IX.1912		20.IX.1912
	Dr. E. Maya		Dr. E. Maya
N	1854	N	1854
		RML	110788
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		80 ♂, 43 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Mauritius, Indian Ocean		Mauritius
	13.IX.1912		13.IX.1912
	Dr. E. Maya		Dr. E. Maya
	Dog suffering from chronic piroplasmosis		
	1 ♂, 1 ♀ to Dr. J. G. Parham		
	Port. East Africa 18.IV.1913.		
	1 ♂, 1 ♀ to N.Y. National Museum		
	18.IV.1913.		
N	1855	N	1855
		RML	110789
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		33 ♂, 4 ♀, 1 N <u>Amblyomma variegatum</u> 1 ♀ <u>Boophilus microplus</u>
	Bullocks		Bullocks
	Mauritius, Indian Ocean		Mauritius
	1911		1911
	Dr. E. Maya		Dr. E. Maya

ORIGINAL DETERMINATIONCURRENT STATUS

N 1856

N 1856

RML 110790

Argas vespertilionis larvae10 L Argas vespertilionisBats (Scotophilus heathi)Scotophilus heathi

Pusa, Bihar, Bengal, India

Pusa (25.59 N, 85.41 E), India

VI.1911

VI.1911

Received from T. Bainbrigge Fletcher
Esq., (Government Entomologist),
Agricultural College, Coimbatore,
Madras, S. India, 21.X.1912.

N 1857

N 1857 MISSING

Boophilus australis ♀'s

S. Paulo, Brazil

Rec'd 21.X.1912

Rec'd. from Professor B.
Galli-Valerio, Lausanne, Switzerland

Ticks retained from the collection (Nos. 147-184) sent for determination by
Professor R. Newstead, F.R.S., School of Tropical Medicine, The University,
Liverpool, 4.X.1912.

N 1858

N 1858

RML 110791

Aponomma gervaisi 1 ♂1 ♂ Aponomma gervaisi

Cobra

Naja sp.

Kasauli, India

Kasauli (30.55 N, 76.57 E), India

1910

1910

Captain R. M. Carter

Captain R. M. Carter

("148")

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1859	N	1859
		RML	110792
	<u>Amblyomma testudinarium</u> 2 ♀		2 ♀ <u>Amblyomma testudinarium</u>
	Assam, India		State of Assam, India
	1910		1910
	Captain R. M. Carter		Captain R. M. Carter
	("150")		Cited: Robinson (1926: 256).
N	1860	N	1860
		RML	110793
	<u>Dermacentor auratus</u> ♀		1 ♀ <u>Dermacentor auratus</u>
	Assam, India		State of Assam, India
	1910		1910
	Captain R. M. Carter		Captain R. M. Carter
	("150a")		
N	1861	N	1861
		RML	110794
	<u>Amblyomma sublaeve</u> 1 ♂		1 ♂ <u>Amblyomma javanense</u>
	No data		No data
	("154")		
N	1862	N	1862
		RML	110795
	<u>Amblyomma</u> sp. larvae		4 L <u>Amblyomma</u> sp.
	Pig's ear		<u>Sus scrofa</u>
	Manderville, Jamaica		Mandeville (18.02 N, 77.30 W), Jamaica
	23.XII.1908		23.XII.1908
	R. Newstead		R. Newstead
	("159")		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1863

Dermacentor nitens ♂, ♀

Horse

Llanrumnly, Jamaica

22.XII.1908

L. B. Melville

("160")

N 1863

RML 110796

1 ♂, 3 ♀ Anocentor nitens

Horse

Llanrumney (18.20 N, 76.54 W),
Jamaica

22.XII.1908

L. B. Melville

N 1864

Amblyomma cajennense ♂, ♀, N

Cattle

Jamaica

1908

M. L. Martin

("162a")

N 1864

RML 110797

1 ♂, 1 ♀, 1 N Amblyomma cajennense

Cattle

Jamaica

1908

M. L. Martin

Cited: Robinson (1926: 53).

N 1865

Amblyomma cajennense ♀

Cattle

Kew Park, Jamaica

10.XII.1908

J. R. Williams

("163a")

N 1865 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	1866	N	1866
		RML	110798
	<u>Dermacentor nitens</u> ♂, ♀		2 ♂, 1 ♀ <u>Anocentor nitens</u>
	Horse's ear		Horse
	Great Valley, Jamaica		Either Great Valley (17.53 N, 77.31 W) or (18.24 N, 78.04 W), Jamaica
	23.XII.1908		23.XII.1908
	R. Newstead		R. Newstead
	("180")		
N	1867	N	1867
		RML	110799
	<u>Dermacentor nitens</u> ♂, ♀		3 ♂, 2 ♀, 1 N <u>Anocentor nitens</u>
	Horse's ear		Horse
	Friendship, Jamaica		Friendship, Jamaica (locality not verified; there are 14 possible localities named Friendship on Jamaica)
	23.XII.1908		23.XII.1908
	R. Newstead		R. Newstead
	("180")		
N	1868	N	1868 MISSING
	<u>Ixodes ricinus</u> ♂, ♀		
	Cattle		
	North Wales		
	X.1906		
	Dr. Annett		
	("181")		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1869

N 1869

RML 110800

Amblyomma sp. N's6 N Amblyomma sp.

Cape Colony, S. Africa

Cape Colony, Republic of South Africa

1910

1910

Mr. Lounsbury

Mr. C. P. Lounsbury

("182")

Ticks retained from the collection sent for determination by Dr. K. S. Wise, Government Bacteriological Department, Georgetown, British Guiana 3.IX.1912:-

NOTE: I do not believe the specimens in most instances were derived from the hosts enumerated. My hypothesis is that a willing native must have collected them for pay & found what he thought was wanted, inventing the hosts!

G.H.F.N.

N 1870

N 1870

RML 110801

Amblyomma dissimile ♂, ♂2 ♂, 1 ♀ Amblyomma dissimile

Toad

Toad

British Guiana

Guyana

1911

1911

Dr. K. S. Wise

Dr. K. S. Wise

I agree with Nuttall's analysis of the host situation for this Guyana material. Therefore no attempt has been made to update or clarify any host information for collections 1870-1890 [J.E.K.]

Cited: Robinson (1926: 167).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1871	N	1871
		RML	110802
	<u>Rhipicephalus sanguineus</u> ♀, ♂		3 ♂, 7 ♀ <u>Rhipicephalus sanguineus</u>
	Turtle (!)		Turtle
	British Guiana		Guyana
	1911		1911
	Dr. K. S. Wise		Dr. K. S. Wise
N	1872	N	1872
		RML	110803
	<u>Rhipicephalus sanguineus</u> ♂'s		5 ♂, 6 ♀ <u>Rhipicephalus sanguineus</u>
	Hog		Hog
	British Guiana		Guyana
	1911		1911
	Dr. K. S. Wise		Dr. K. S. Wise
N	1873	N	1873
		RML	110804
	<u>Amblyomma dissimile</u> ♂, ♀		6 ♂, 2 ♀, 2 N <u>Amblyomma dissimile</u>
	Cow		Cow
	British Guiana		Guyana
	1911		1911
	Dr. K. S. Wise		Dr. K. S. Wise

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1874	N	1874
		RML	110805
	<u>Rhipicephalus sanguineus</u> ♂, ♀, N		2 ♂, 1 ♀, 6 N <u>Rhipicephalus sanguineus</u>
	"Salapenter"		"Salapenter"
	British Guiana		Guyana
	1911		1911
	Dr. K. S. Wise		Dr. K. S. Wise
N	1875	N	1875
		RML	110806
	<u>Rhipicephalus sanguineus</u> ♀		1 ♀ <u>Rhipicephalus sanguineus</u>
	Man		Man
	British Guiana		Guyana
	1911		1911
	Dr. K. S. Wise		Dr. K. S. Wise
	(Mibouli tick)		
N	1876	N	1876
		RML	110807
	<u>Rhipicephalus sanguineus</u> ♂, ♀		3 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	Crab dog		Crab dog
	British Guiana		Guyana
	1911		1911
	Dr. K. S. Wise		Dr. K. S. Wise

ORIGINAL DETERMINATIONCURRENT STATUS

N 1877

Rhipicephalus sanguineus ♂'s

Lizard

British Guiana

1911

Dr. K. S. Wise

"Rot" [Editorial comment by Nuttall relating to hosts for N 1877-1879]

N 1878

Rhipicephalus sanguineus ♂, ♀

Turtle (!)

British Guiana

1912

Dr. K. S. Wise

N 1879

Rhipicephalus sanguineus ♂, ♀

Alligator

British Guiana

1912

Dr. K. S. Wise

N 1877

RML 110808

6 ♂, 3 ♀ Rhipicephalus sanguineus

Lizard

Guyana

1911

Dr. K. S. Wise

N 1878

RML 110809

7 ♂, 4 ♀ Rhipicephalus sanguineus

Turtle

Guyana

1912

Dr. K. S. Wise

N 1879

RML 110810

9 ♂, 2 ♀ Rhipicephalus sanguineus

Alligator

Guyana

1912

Dr. K. S. Wise

ORIGINAL DETERMINATIONCURRENT STATUS

N	1880	N	1880
		RML	110811
	<u>Rhipicephalus sanguineus</u> ♂'s		4 ♂ <u>Rhipicephalus sanguineus</u>
	Ocelot		Ocelot
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise
N	1881	N	1881
		RML	110812
	<u>Rhipicephalus sanguineus</u> ♂, ♀		7 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Mongoose		Mongoose
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise
N	1882	N	1882
		RML	110813
	<u>Rhipicephalus sanguineus</u> ♂, ♀		2 ♂, 7 ♀ <u>Rhipicephalus sanguineus</u>
	Labba		Labba
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise

ORIGINAL DETERMINATIONCURRENT STATUS

N 1883

Amblyomma dissimile ♂, ♀

Iguana

British Guiana

1912

Dr. K. S. Wise

N 1883

RML 110814

5 ♂, 1 ♀ Amblyomma dissimile

Iguana

Guyana

1912

Dr. K. S. Wise

Cited & figured: Robinson (1926:
164, 166, 167).

N 1884

Boophilus sp. ♂, ♀

Chameleon

British Guiana

1912

Dr. K. S. Wise

N 1884

RML 110815

3 ♂, 6 ♀ Boophilus microplus

Chameleon

Guyana

1912

Dr. K. S. Wise

N 1885

Boophilus sp. ♂, ♀

Marmoset

British Guiana

1912

Dr. K. S. Wise

N 1885

RML 110816

7 ♂, 2 ♀ Boophilus microplus

Marmoset

Guyana

1912

Dr. K. S. Wise

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1886	N	1886
		RML	110817
	<u>Boophilus</u> sp. ♂, ♀		2 ♂, 2 ♀ <u>Boophilus microplus</u>
	"Hackia"		"Hackia"
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise
	"Rot" [Editorial comment by Nuttall relating to hosts for N 1886-1890]		
N	1887	N	1887
		RML	110818
	<u>Boophilus</u> sp. ♂, ♀		2 ♂, 7 ♀ <u>Boophilus microplus</u>
	"Water Hass"		"Water Hass"
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise
N	1888	N	1888
		RML	110819
	<u>Boophilus</u> sp. ♂, ♀		8 ♂ <u>Boophilus microplus</u>
	"Raccoon"		"Raccoon"
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise

ORIGINAL DETERMINATIONCURRENT STATUS

N	1889	N	1889
		RML	110820
	<u>Boophilus</u> sp. ♂, ♀		8 ♂, 2 ♀ <u>Boophilus microplus</u>
	"Grisson"		"Grisson"
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise
N	1890	N	1890
		RML	110821
	<u>Boophilus</u> sp. ♂, ♀		7 ♂ <u>Boophilus microplus</u>
	"Kibihee"		"Kibihee"
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise
N	1891	N	1891 MISSING
	<u>Rhipicephalus</u> sp. ♀'s (with eggs)		
	Dog		
	Argentine Republic, S. America		
	7.VI.1912		
	Rec'd. from Prof. Lignières 23.IX.1912		

Ticks received from Dr. H. de Beaurepaire Aragão, Instituto de Manguinhos,
Rio de Janeiro, Brazil, South America, 28 October 1912:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1892	N	1892
		RML	110822
<u>Amblyomma pacae</u> ♂		1 ♂ <u>Amblyomma pacae</u>	
<u>Coelogenys paca</u>		<u>Agouti paca</u>	
Estado de Minas, Brazil		Estado do Minas Gerais (18.00 S, 44.00 W), Brazil	
II.1912		II.1912	
(Pinned) Had been in alcohol (No. 2780)		Pinned specimen Cited: Robinson (1926: 211).	
N	1893	N	1893
		RML	110823
<u>Amblyomma pacae</u> ♀		1 ♀ <u>Amblyomma pacae</u>	
<u>Coelogenys paca</u>		<u>Agouti paca</u>	
Estado de Rio, Brazil, S. America		Perhaps Estado do Rio de Janeiro (22.00 S, 42.30 W), Brazil	
1908		1908	
(Pinned) (No. 1327)		Pinned specimen Cited: Robinson (1926: 211).	
N	1894	N	1894
		RML	110824
<u>Haemaphysalis leporis</u> var. <u>proxima</u> 1 ♂, 3 ♀		1 ♂, 3 ♀ <u>Haemaphysalis leporispalustris</u>	
<u>Lepus braziliensis</u>		<u>Sylvilagus braziliensis</u>	
Manguinhos, Brazil, S. America		Manguinhos, Brazil (locality not verified; 4 possible localities).	
20.VII.1907		20.VII.1907	
(Pinned) (Nos. 135/138)		Pinned specimens Cited: Nuttall & Warburton (1915: 394).	

ORIGINAL DETERMINATIONCURRENT STATUS

N	1895	N	1895	MISSING
	<u>Ornithodoros rostratus</u>			
	Rio Guapore, Estado de Matto Grosso, Brazil, S. America			
	1909			
	(Pinned) No. 1774)			
N	1896	N	1896	
		RML	110825	
	<u>Amblyomma oblongoguttatum</u> ♂, ♀		1 ♂, 1 ♀ <u>Amblyomma oblongoguttatum</u>	
	<u>Tapirus americanus</u>		<u>Tapirus terrestris</u>	
	Estado do Espirito Santo, Brazil S. America		Estado do Espirito Santo (20.00 S, 40.45 W), Brazil	
	1908		1908	
	(Pinned) (Nos. 1555/56)		Cited: Robinson (1926: 36).	
N	1897	N	1897	MISSING
	<u>Amblyomma incisum</u> ♀		This pinned ♀ is now in the BMNH collection.	
	<u>Tapirus americanus</u>			
	Estado do Espirito Santo, Brazil, S. America			
	1908			
	(Pinned) (No. 1561)			

Ticks received back from the Entomological Research Committee (Tropical Africa), London, S.W., ex Report No. 24, 30 October 1912:-

ORIGINAL DETERMINATION

CURRENT STATUS

N	1898	N	1898
		RML	110826
	<u>Amblyomma splendidum</u> 1 ♀		1 ♀ <u>Amblyomma splendidum</u>
	Grasses		Grasses
	Yiraia, Sierra Leone, West Africa		Yiraia, either (09.06 N, 10.57 W) or (09.27 N, 11.15 W), Sierra Leone
	7.VI.1912		7.VI.1912
	J. J. Simpson		J. J. Simpson
	"580"		Cited: Robinson (1926: 125).
N	1899	N	1899
		RML	110827
	<u>Haemaphysalis parvata</u> ♂, ♀, N		2 ♂, 3 ♀ <u>Haemaphysalis parvata</u>
	"Harnessed" Antelope		"Harnessed" Antelope
	Port Lokko, Sierra Leone, West Africa		Port Loko (08.46 N, 12.47 W), Sierra Leone
	11.V.1912		11.V.1912
	J. J. Simpson		J. J. Simpson
	"584"		Cited: Nuttall & Warburton (1915: 421).
N	1900	N	1900
		RML	110828
	<u>Aponomma exornatum</u> ♂'s		6 ♂ <u>Aponomma exornatum</u>
	Lizard (<u>Varanus</u> sp.)		<u>Varanus</u> sp.
	Sesse Islands, Lake Victoria, B. E. Africa		Sese Islands (00.20 S, 32.20 E), Uganda
	18.IV.1912		18.IV.1912
	G. D. H. Carpenter		G. D. H. Carpenter
	"593"		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1901

Amblyomma sp N's

Water-buck

Laminaia, Sierra Leone, West Africa

26.IV.1912

J. J. Simpson

"567"

N 1902

Dermacentor circumguttatus ♂, ♀

Elephant

Katonta, Sierra Leone, West Africa

19.IV.1912

J. J. Simpson

"578a"

N 1901

RML 110829

2 N Amblyomma sp.

Kobus ellipsiprymnus

Laminaia, either (08.44 N, 13.09 W)
or (09.17 N, 12.23 W), Sierra Leone

26.IV.1912

J. J. Simpson

N 1902

RML 110830

2 ♂, 1 ♀ Dermacentor circumguttatus

Loxodonta africana

Kakonta (09.06 N, 11.43 W),
Sierra Leone

19.IV.1912

J. J. Simpson

Total includes 1 ♂ mounted on a
slide along with the ♀ from N 3383

Ticks taken out of the collection brought in for determination by Mr. F. M. Howlett, B.A., Assistant Entomologist, India, X.1912:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1903	N	1903
		RML	110831
	<u>Aponomma gervaisi</u> ♂, ♀, N		8 ♂, 4 ♀, 2 N <u>Aponomma gervaisi</u>
	Goat		Goat
	Kangra, Punjab, India		Kangra, Punjab, Pakistan (locality not verified; 4 possible localities with this name)
	1908		1908
N	1904	N	1904 MISSING
	<u>Argas persicus</u>		
	Fowls		
	Kangra, Punjab, India		
	1908		
	Some (sex/stage not given) to N.Y. National Museum 18.IV.1913		
N	1905	N	1905
		RML	110832
	<u>Argas persicus</u>		2 ♂, 3 ♀, 6 N <u>Argas persicus</u>
	Fowls		Fowls
	Etawah, United Provinces, India		Etawa (24.12 N, 78.12 E), India
	18.X.1906		18.X.1906

ORIGINAL DETERMINATIONCURRENT STATUS

N	1906	N	1906
		RML	110833
	<u>Haemaphysalis bispinosa</u> ♀'s		13 ♀ <u>Haemaphysalis bispinosa</u>
	Cattle		Cattle
	Bellary, Madras, India		Bellary (15.09 N, 76.56 E), India
	9.VII.1906		9.VII.1906
			Cited: Nuttall & Warburton (1915: 432).
N	1907	N	1907
		RML	110834
	<u>Aponomma laeve</u> ♂, ♀		1 ♂, 6 ♀ <u>Aponomma pattoni</u>
	Cobra		<u>Naja naja</u> or <u>Ophiophagus hannah</u>
	Bombay, India		Bombay (18.58 N, 72.50 E), India
	III.1909		III.1909
N	1908	N	1908
		RML	110835
	<u>Amblyomma testudinarium</u> ♂, ♀		1 ♂, 2 ♀ <u>Amblyomma testudinarium</u>
	Cattle		Cattle
	Bombay, India		Bombay (18.58 N, 72.50 E), India
	14.IV.1911		14.IV.1911
			Cited: Robinson (1926: 256).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1909	N	1909
		RML	110836
	<u>Amblyomma testudinarium</u> ♀		1 ♀ <u>Amblyomma testudinarium</u>
	Cattle		Cattle
	Bamauk, India		Perhaps Bamaur (26.21 N, 78.05 E), India
	14.XI.1911		14.XI.1911
	1 ♂, 1 ♀ to Dr. de Blieck, Java, 22.I.1915		Cited: Robinson (1926: 256).
N	1910	N	1910
		RML	110837
	<u>Ornithodoros savignyi</u>		1 ♀, 1 N <u>Ornithodoros savignyi</u>
	Human habitations		Human habitations
	Baroda, India		Baroda, India (locality not verified; 4 possible localities)
	IV.1909		IV.1909
N	1911	N	1911 MISSING
	<u>Amblyomma cajennense</u> ♂'s, ♀'s		
	Horses ("in apparently good health")		
	Adelphi, Glasgow, Jamaica, West Indies		
	10.X.1912		
	Dr. H. G. Johnston		
	[2 ♂, 2 ♀ mounted in cells with other <u>Amblyommas</u>]		
	1 ♂, 1 ♀ to N.Y. National Museum		
	18.IV.1913		
	1 ♂, 1 ♀ to Richard Hancock, England		
	16.VI.1918		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1912	N	1912
		RML	110838
	<u>Ixodes pilosus</u> ♂, ♀		1 ♂, 1 ♀ <u>Ixodes pilosus</u>
	Cattle		Cattle
	Starvation Camp, Gonubie Park, E. London, South Africa		"Starvation Camp", Gonubie Park (32.55 S, 27.59 E), Republic of South Africa
	II.1912		II.1912
	(Ex collection sent for determination by L. E. Robinson, Esq., X.1912)		(Ex collection sent for determination by L. E. Robinson, Esq., X.1912) Cited: Nuttall (1916: 330).
N	1913	N	1913
		RML	110839
	<u>Rhipicephalus follis</u> 2 ♂		2 ♂ <u>Rhipicephalus follis</u>
	Cattle		Cattle
	Starvation Camp, Gonubie Park, E. London, South Africa		"Starvation Camp", Gonubie Park (32.55 S, 27.59 E), Republic of South Africa
	II.1912		II.1912
	(Ex collection sent for determination by L. E. Robinson, Esq. X.1912)		(Ex collection sent for determination by L. E. Robinson, Esq. X.1912)
N	1914	N	1914
		RML	110840
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		6 ♂, 25 ♀ <u>Rhipicephalus simus</u>
	Cattle		Cattle
	Starvation Camp, Gonubie Park, E. London, South Africa		"Starvation Camp", Gonubie Park (32.55 S, 27.59 E), Republic of South Africa
	II.1912		II.1912
	(Ex collection sent for determination by L. E. Robinson, Esq., X.1912)		(Ex collection sent for determination by L. E. Robinson, Esq., X.1912)

ORIGINAL DETERMINATIONCURRENT STATUS

N 1915

Amblyomma tholloni ♂'s, ♀'s & N's

Elephant

Katanta, Sierra Leone, West Africa

19.IV.1912

J. J. Simpson

("E.R.C. 578")

(2 ♂ & 2 ♀ mounted in cells on
slides II.1915)

N 1915

RML 110841

16 ♂, 14 ♀ Amblyomma tholloniLoxodonta africanaKatanta (09.06 N, 11.57 W),
Sierra Leone

19.IV.1912

J. J. Simpson

Slides missing.

Cited: Robinson (1926: 252).

N 1916

Ixodes hexagonus 3 ♀'s

Pole cat

St. Clears, Carmarthenshire,
South Wales

9.X.1912

("Z.S. 34")

1 ♀ to Dr. E. Pavlovsky,
Leningrad 9.X.1925

N 1916

RML 110842

2 ♀ Ixodes hexagonusMustela putoriusSaint Clears (51.49 N, 04.30 W),
Wales

9.X.1912

Cited: Nuttall (1916: 328).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1917	N	1917
		RML	110843
<u>Argas brumpti</u> N's		Vial 1 20 L plus eggs <u>Argas brumpti</u> Vial 2 3 N <u>Argas brumpti</u> Vial 3 3 L <u>Argas brumpti</u> 4 vials of cast skins from larvae, 1st stage N, 1st & 2nd stage N, 2nd & 3rd stage N.	
Probably Kitui, British East Africa		Probably Kitui (01.22 S, 28.01 E), Kenya	
Received 14.XI.1912		Received 14.XI.1912	
Received from S.W.J. Scholefield, Esq., Kitui, British East Africa		Received from S.W.J. Scholefield, Esq., Kitui, Kenya	
[2 larvae mounted on slide in balsam]		Slides missing	
<u>A. brumpti</u> : Raised in Cambridge (box "series") (a) (b) larvae unfed (c) larvae gorged (d) " skins (e) N's 1st stage unfed (f) N's 1st stage skins (i) larvae & eggs (ii) N's skins 1st & 2nd stage (iii) " " 2nd & 3rd "		There is also a vial containing 17 larvae <u>Argas</u> sp. and with two labels, N 1917 and N1288(<u>A.</u> <u>reflexus</u>). The larvae are neither <u>A. brumpti</u> nor <u>A. reflexus</u> . Cited: Cunliffe (1914b: 379).	
N	1918	N	1918
		RML	110844
<u>Ornithodoros moubata</u>		6 ♂, 5 ♀, 4 N <u>Ornithodoros moubata</u>	
Probably Kitui, British East Africa		Probably Kitui (01.22 S, 38.01 E), Kenya	
Received 14.VI.1912		Received 14.VI.1912	
Received from S.W.J. Scholefield, Esq., Kitui, British East Africa		Received from S.W.J. Scholefield, Esq., Kitui, Kenya	

Ticks received back from the Entomological Research Committee
(ex Report No. 25), 15 November 1912:-

ORIGINAL DETERMINATION

CURRENT STATUS

N	1919	N	1919 MISSING
	<u>Rhipicephalus appendiculatus</u> ♀'s		
	Cattle		
	Ankole (Mbarara), Uganda		
	V.1912		
	Dr. R. E. McConnell		
	"600"		
N	1920	N	1920
		RML	110845
	<u>Ornithodoros moubata</u>		4 ♀ <u>Ornithodoros moubata</u>
	Katwe, British East Africa		Katwe, Kenya (locality not verified; perhaps one of two towns named Katwe in Uganda)
	III.1912		III.1912
	Dr. R. E. McConnell		Dr. R. E. McConnell
	"601"		Probably <u>O. moubata porcinus</u>
N	1921	N	1921
		RML	110846
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		2 ♂, 2 ♀ <u>Amblyomma variegatum</u>
	Cattle		Cattle
	Mbarara Ankole, Africa		Mbarara (00.37 S, 30.39 E), Uganda
	V.1912		V.1912
	Dr. R. E. McConnell		Dr. R. E. McConnell
	"600b")		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1922	N	1922
		RML	110847
	<u>Rhipicephalus simus</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Rhipicephalus simus</u>
	Porcupine		Either <u>Atherurus africanus</u> or <u>Hystrix cristata</u>
	Mbarara, Ankole, Uganda		Mbarara (00.37 S, 30.39 E), Uganda
	3.V.1912		3.V.1912
	Dr. R. E. McConnell		Dr. R. E. McConnell
	"603"		
N	1923	N	1923 MISSING
	<u>Haemaphysalis leachi</u> ♂, ♀		
	Bush-cat (<u>Mungos paludinosus</u>)		
	Komatendu, Sierra Leone, West Africa		
	13.VIII.1912		
	J. J. Simpson		
	"604a"		
N	1924, a, b	N	1924, a, b
		RML	110848
	(1924) <u>Rhipicephalus sanguineus</u>		(1924) 38 ♂, 18 ♀, 14 N <u>Rhipicephalus sanguineus</u>
	(a) <u>Boophilus australis</u>		(a) 5 ♂, 13 ♀ <u>Boophilus microplus</u>
	(b) <u>Hyalomma aegyptium</u>		(b) MISSING
	Dogs		Dogs
	Barielly, United Provinces, India		Barielly (28.22 N, 79.27 E), India
	10.X.1912		10.X.1912
	Rec'd. from Captain W. F. Loughnan, R.A.M.C., 19.XI.1912		Rec'd. from Captain W. F. Loughnan, R.A.M.C., 19.XI.1912

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1925	N	1925 MISSING
	<u>Amblyomma hebraeum</u> ♀'s		
	Off ?		
	Probably East London, Cape Colony, South Africa		
	Rec'd 19.XI.1912		
	Rec'd from Messrs. W. Cooper & Nephews, East London, Cape Colony, South Africa		
	Ticks received from Dr. M. A. Ruffer, C.M.G. (Presidente Sanitaire, Maritime et Quarantenaire d' Egypt), Alexandria, Egypt, 26.XI.1912:-		
N	1926, a-c	N	1926, a-c
		RML	110849
	(1926) <u>Haemaphysalis punctata</u> ♀'s		(1926) 9 ♀ <u>Haemaphysalis</u> sp.
	(a) <u>Hyalomma aegyptium</u> ♀		(a) 3 ♀ <u>Hyalomma dromedarii</u>
	(b) <u>Boophilus australis</u> ♀		(b) 1 ♀ <u>Boophilus annulatus</u>
	(c) <u>Rhipicephalus sanguineus</u> ♀		(c) 1 ♀ <u>Rhipicephalus sanguineus</u>
	Sheep		Sheep
	Alexandria, Egypt		Alexandria (31.12 N, 29.54 E), Egypt
	XI.1912		XI.1912
	Dr. M. A. Ruffer		Dr. M. A. Ruffer
			1926 (c) tentative identification; engorged specimen with a genital aperture suspiciously like that of <u>Rhipicephalus turanicus</u> .
N	1927	N	1927 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Camels		
	Alexandria, Egypt		
	XI.1912		
	Dr. M. A. Ruffer		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1928	N	1928
		RML	110850
	<u>Haemaphysalis punctata</u> ♀'s		4 ♀ <u>Haemaphysalis</u> sp.
	Goat		Goat
	Alexandria, Egypt		Alexandria (31.12 N, 29.54 E), Egypt
	XI.1912		XI.1912
	Dr. M. A. Ruffer		Dr. M. A. Ruffer
N	1929, a	N	1929
		RML	110851
	(1929) <u>Haemaphysalis punctata</u> ♂, ♀'s		(1929) 1 ♂, 6 ♀ <u>Haemaphysalis</u> sp.
	(a) <u>Hyalomma aegyptium</u> ♀		(a) MISSING
	Sheep		Sheep
	Mersyne, Egypt		Mersyne, Egypt (locality not verified)
	XI.1912		XI.1912
	Dr. M. A. Ruffer		Dr. M. A. Ruffer
N	1930	N	1930
		RML	110852
	<u>Boophilus annulatus</u> ♂, ♀'s		1 ♂, 5 ♀ <u>Boophilus annulatus</u>
	Calf		Calf
	Tangiers, Morocco, North Africa		Tangier (35.48 N, 05.48 W), Morocco
	XI.1912		XI.1912
	Rec'd from Dr. Gabrielle Breeze, 29.XI.1912		Rec'd from Dr. Gabrielle Breeze, 29.XI.1912

ORIGINAL DETERMINATIONCURRENT STATUS

N 1931

N 1931 MISSING

Boophilus annulatus ♂'s, ♀'s

Cattle

Tangiers, Morocco, North Africa

XI.1912

Rec'd. from Dr. Gabrielle Breeze,
29.XI.1912

ORIGINAL DETERMINATIONCURRENT STATUS

N 1932

N 1932

RML 110853

Rhipicephalus sanguineus ♂'s, ♀'s

This collection of Rhipicephalus sanguineus is in 13 vials as follows:
 ♂ - 33, 62, 62; ♀ - 27, 26, 20, 36, 23; N - ±200, 393, 51, ±800; L - ±800, 7, ±3000, 26, ±1000; 1 vial of eggs

Dogs

Raised on dog and jackal

Central Research Institute, Kasauli,
 Punjab, India

Raised in Cambridge (52.13 N,
 00.08 E), England. Parent stock
 from Kasauli (30.55 N, 76.57 E), India

X.1912

X.1912

Rec'd. from Captain C. D. Mackey
 I.M.S., 27.XI.1912

Rec'd. from Captain C. D. Mackey
 I.M.S., 27.XI.1912

(Sent originally to Major Christophers,
 who handed them to us)

There are also 10 vials of ticks to
 show variation in size due to
 nutrition - see Cunliffe (1914a; 372)

1 ♂, ♀'s N's, L's to Prof. Dr. Dahl,
 Berlin Museum VII.1914.

1 ♂, ♀'s, N's, L's to Prof. Dr.
 Schenkling, Deutsches Entomol. Mus.
 VII.1914.

1 ♂, ♀'s, N's, L's to Prof. Dr. R.
 Gestro, Museu Civico di Storia
 Nat. Genova VII.1914.

2 ♂, 2 ♀ to Launcelot Harrison,
 Australia 9.V.1919.

2 ♂, 2 ♀ to Prof. Poulton, Oxford
 26.V.1919.

2 ♂, 2 ♀ to Prof. M. Jesus Maynar,
 Zaragoza, Spain 26.V.1919.

2 ♂, 2 ♀ to Prof. E. Hindle,
 Cambridge 24.IX.1919.

1 ♂, 1 ♀ to Major J.E.M. Boyd,
 Cambridge 20.XII.1919.

1 ♂, 1 ♀ to Dr. J. Gordon Thompson,
 London Sch. Trop. Med. 8.I.1920.

1 ♂, 1 ♀ to Dr. R. W. Hegner, Johns
 Hopkins, Baltimore 8.III.1920.

1 ♂, 1 ♀ to Dr. R. J. Tillyard,
 Nelson, N.Z. VI.1920.

1 ♂, 1 ♀ to Prof. Jules Bordet,
 Bruxelles, Belgium 30.VI.1920.

1 - 94 L; 2 - 11 N; 3 - 10 ♂; 4 - 10 ♀;
 5 - 3 ♂; 6 - 6 ♂, 7 - 3 ♀; 8 - 5 ♀;
 9 - 1 N; 10 - 1 N.

Cited: Nuttall (1915: 448); Edwards &
 Evans (1967: 596).

2 ♂, 2 ♀ to Prof. Sadeo Yoshida
 at Cambridge 21.XII.1920.
 2 ♂, 2 ♀ to P. A. Buxton at Cambridge
 10.II.1921.
 2 ♂, 2 ♀ to Dr. D. A. de Yong at
 Cambridge 8.IV.1921.
 2 ♂, 2 ♀ to Prof. G. Hedger-Wallace,
 Univ. of Wales, Cardiff 1921.
 1 ♂, 1 ♀ to Dr. Wm. Parry Morgan,
 Publ. Hlth, Dept., Cardiff, Wales
 12.X.1922.
 1 ♂, 1 ♀ to W. A. Pool, Indian Civil
 Veterinary Dept. 12.X.1922.
 1 ♂, 1 ♀ to L. P. W. Renouf, Biol.
 Dept., Univ. College, Cork, Ireland
 12.X.1922.
 1 ♂, 1 ♀ to Dr. A. Watkins Pitchford,
 Army Vet. School, Thornhill,
 Aldershot 12.X.1922.
 1 ♂, 1 ♀ to Prof. J. Hjort, Univ. of
 Christiana, Norway 12.X.1922.
 1 ♂, 1 ♀ to Dr. E. Roubaud, Inst.
 Pasteur, Paris 12.X.1922.
 1 ♂, 1 ♀ to Dr. E. Brumpt, Ecole
 Medicine, Paris 12.X.1922.
 1 ♂, 1 ♀ to J.E.M. Mellor, Malvern College,
 Malvern 16.X.1922.
 1 ♂, 1 ♀ to Prof. A. Bettencourt, Inst.
 Camara Pestana, Lisbon 7.XI.1922.
 2 ♂, 2 ♀ to Dr. S. H. Daukes,
 Wellcome Bureau, London 9.I.1924.
 1 ♂, 1 ♀ to I. C. Ross, Univ. of
 Sydney, Australia
 All stages to Prof. R. A. Cooley,
 Montana V.1928.
 2 ♂, 2 ♀, N's, L's to Prof. R. Matheson,
 Cornell 27.V.1929.
 2 ♂, 2 ♀, N's, L's to Prof. J. Drbohlav,
 Prague 30.V.1929.
 2 ♂, 2 ♀, N's, L's to Dr. A. C. Reed,
 San Francisco 30.V.1929.
 1 ♂, 2 ♀, N's, L's to Prof. E. Molvoz,
 Liege 30.V.1929.
 1 ♂, 2 ♀, N's, L's to E. T. Boardman,
 Univ. Florida, Gainesville 30.V.1929.
 1 ♂, 2 ♀, N's, L's to R. W. Mettam,
 Weybridge IV.1931.
 1 ♂, 2 ♂, N's, L's to H. S. Purchase
 IV.1931.
 2 ♂, 2 ♀, to Prof. D'Arcy Thompson
 XI.1931.

ORIGINAL DETERMINATIONCURRENT STATUS

Ticks received from the Liverpool School of Tropical Medicine, The University, Liverpool, 30.XI.1912:

N	1933	N	1933 MISSING
	<u>Haemaphysalis leachi</u> ♂, ♀		
	Lioness		
	Mpamadzi River, N.E. Rhodesia		
	9.IX.1911		
	Dr. A. Kinghorn		
N	1934	N	1934
		RML	110854
	<u>Amblyomma marmoreum</u> ♂		1 ♂ <u>Amblyomma sparsum</u>
	Rhinoceros		<u>Diceros bicornis</u>
	Nowalia, N.E. Rhodesia		Possibly Nawala (16.35 S, 23.50 E), Zambia
	6.VIII.1911		6.VIII.1911
	Dr. A. Kinghorn		Dr. A. Kinghorn
			Cited: Robinson (1926: 90); Theiler & Salisbury (1959: 114) cited the collector as Dr. A. King.
N	1935	N	1935
		RML	110855
	<u>Amblyomma dissimile</u>		1 ♂ <u>Amblyomma dissimile</u>
	<u>Boa constrictor</u>		<u>Boa constrictor</u>
	South America (probably upper Amazon)		South America (probably upper Amazon)
	27.CI.1912		27.XI.1912
	Dr. O'Connell		Dr. O'Connell
			Robinson (1926: 167) considers this collection to be from Brazil.

Ticks received 28.XI.1912 from Dr. Longin Navás, Colegio del Salvador, Zaragoza, Spain, on 28.XI.1912, comprising 24 pinned specimens collected in Spain the name of the host not being mentioned on the labels. Navás met C. Warburton this year at the Congress of Entomology, held at Oxford. Found on vegetation or on the earth:-

ORIGINAL DETERMINATION

CURRENT STATUS

N 1936

N 1936

RML 110856

Dermacentor reticulatus 1 ♂, 2 ♀

1 ♂, 2 ♀ Dermacentor niveus

♂ & 1 ♀ from Goloso, Spain
1 ♀ from Zaragoza, Spain

♂ & 1 ♀ perhaps from Golosa, Puerto (40.22 N, 06.28 W) and 1 ♀ from Zaragoza (41.38 N, 00.53 W), Spain

♂ & 1 ♀ 3 & 9.IV.1901
1 ♀ 1896

♂ & 1 ♀ 3 & 9.IV.1901
1 ♀ 1896

[I returned 1 ♂ & 2 ♀ also collected at these places 1896 and IV.1901.]

Pinned specimens

Longinos Navas S.J. (1858-1938)
Neuroptera specialist.

N 1937

N 1937

RML 110857

Hyalomma aegyptium 2 ♂, 1 ♀

2 ♂, 1 ♀ Hyalomma sp.

1 ♂ from Goloso, 1 ♂ from Chamartin, 1 ♀ from Zaragoza

1 ♂ perhaps Golosa, Puerto (40.22 N, 06.28 W), 1 ♂ Chamartin (locality not verified); 1 ♀ Zaragoza (41.38 N, 00.53 W), Spain

1 ♂ (Goloso) 3.IV.1901 1 ♂ (Charmartin) 19.VI.1900;
1 ♀ III.1899

1 ♂ (Golosa), Puerto 3.IV.1901;
1 ♂ (Chamartin) 19.VI.1900;
1 ♀ III.1899

[I returned 1 ♀ from Zaragoza VI.1898; 1 ♂, 1 ♀ from Goloso, 3 and 9.IV.1901; 1 ♂ from Sobradiel, 1898; 1 ♀ from Pardo, 17.IV.1900]

Pinned specimens

ORIGINAL DETERMINATIONCURRENT STATUS

N 1938

N 1938

RML 110858

Rhipicephalus bursa 1 ♂, 1 ♀1 ♂, 1 ♀ Rhipicephalus bursa

1 ♂ from Albarracin; ♀ from Moncayo

♂ from Albarracin (40.25 N, 01.26 W);
♀ from Moncayo (37.54 N, 02.36 W),
Spain

♂ 12.VII.?. ♀ VII.1902

♂ 12.VII. ; ♀ VII.1902

[I returned 1 ♂ & 1 ♀ from Zaragoza
1.IV and 17.V.1902; 2 ♀'s from
Sobradriel VI.1898; 1 ♂ from
Montseny, VII.1899; 1 ♀ from Chamartin
19.V.1900].

Pinned specimens

Haemaphysalis punctata 1 ♀ labelled
"Aracnido" V.1897 [returned to
Dr. Navas]Ticks received from Dr. W. B. Johnson (West African Medical Service),
Zungeru N. Nigeria, West Africa, 2 December 1912:-

N 1939, a-d

N 1939 b, c

RML 110859

(1939) Boophilus decoloratus ♂'s, ♀'s

(1939) MISSING

(a) Rhipicephalus evertsi ♂'s, ♀'s

(a) MISSING

(b) Rhipicephalus sanguineus ♂, ♀(b) 2 ♂, 2 ♀ Rhipicephalus sanguineus(c) Rhipicephalus simus 1 ♂(c) 1 ♂ Rhipicephalus simus(d) Hyalomma aegyptium 1 ♂

(d) MISSING

Sheep

Sheep

Kadiri, near Kano, N. Nigeria,
West Africa

Kadiri (08.15 N, 11.03 E), Nigeria

X.1912

X.1912

Dr. W. B. Johnson

Dr. W. B. Johnson

<u>CURRENT DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1940	N	1940 MISSING
	<u>Boophilus decoloratus</u> ♂'s, ♀'s		
	Goats		
	Zaria, N. Nigeria, West Africa		
	IX.1912		
	Dr. W. B. Johnson		
N	1941	N	1941
		RML	110860
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		6 ♂, 8 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs & horses in bush		Dogs & horses in bush
	Zungeru, N. Nigeria, West Africa		Zungeru (09.48 N, 06.09 E.), Nigeria
	VI-X, 1912		VI-X, 1912
	Dr. W. B. Johnson		Dr. W. B. Johnson
N	1942, a	N	1942a
		RML	110861
	(1942) <u>Hyalomma aegyptium</u> ♀'s, ♀'s		(1942) MISSING
	(a) <u>Rhipicephalus sanguineus</u> ♂'s, N's		(a) 2 ♂, 3 N <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Barielly, United Provinces, India		Barielly (28.22 N, 79.27 E), India
	XI.1912		XI.1912
	Rec'd. from Captain W. F. Loughnan, R.A.M.C. 2.XII.1912		Rec'd. from Captain W. F. Loughnan, R.A.M.C. 2.XII.1912

ORIGINAL DETERMINATIONCURRENT STATUS

N	1943, a, b	N	1943a, b
		RML	110862
	(1943) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(1943) MISSING
	(a) <u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		(a) 48 ♂, 17 ♀, 2 N <u>Rhipicephalus sanguineus</u>
	(b) <u>Boophilus australis</u> ♂'s, ♀'s, N's		(b) 3 ♂, 28 ♀, 17 N <u>Boophilus microplus</u>
	Buffaloes		Buffaloes
	Barielly, United Provinces, India		Barielly (28.22 N, 79.27 E), India
	XI.1912		XI.1912
	Rec'd from Captain W. F. Loughnan, R.A.M.C. 2.XII.1912		Rec'd from Captain W. F. Loughnan, R.A.M.C. 2.XII.1912
Ticks retained from the collection sent for determination by the Indian Museum (per Dr. Annandale), Calcutta, India, XI.1912. [See Report book]			
N	1944	N	1944
		RML	22316
	<u>Amblyomma sublaeve</u> ♂'s		9 ♂ <u>Amblyomma javanense</u>
	Pangolin (<u>Manis pentadactyla</u>)		<u>Manis pentadactyla</u>
	Nagpur, Central Provinces, India		Nagpur (21.09 N, 79.06 E), India
	29.VIII.1912		29.VIII.1912
	E. A. D'Abreu		E. A. D'Abreu
	[No. $\frac{1517}{17}$]		3 slides of dissections present ♂ hypostome ♂ spiracular plate ♂ legs I & IV Cited: Robinson (1926: 247).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1945

Aponomma laeve ♂'s

Rat-snake

Dhardeo, Mahabaleshwar District,
W. Ghats, India

1912

[No. $\frac{S.P.A.}{7}$]

N 1945

RML 110863

3 ♂ Aponomma pattoniPtyas mucosus or P. korrosDhardeo, Mahabaleshwar District,
W. Ghats, India (locality not verified)

1912

N 1946

Haemaphysalis sp. N'sTambi, Koyna Valley Satara District,
India

24-26.IV.1912

F. H. Gravely

[No. $\frac{S.P.A.}{8}$]

N 1946

RML 110864

17 N Haemaphysalis sp.Tambi, Koyna River Valley (17.18 N,
74.10 E), Satara District, India

24-26.IV.1912

F. H. Gravely

Ticks received from Dr. Mercier Gamble, of Matadi, Belgian Congo, W.-Central
Africa, 16.XII.1912:-

N 1947

Amblyomma splendidum ♂'s, ♀'s

Buffalo

Portuguese Congo, Central Africa

I.1912

Dr. M. Gamble

2 ♂, 1 ♀ to Prof. R. Matheson,
Cornell 27.V.1929

N 1947

RML 110865

32 ♂, 13 ♀ Amblyomma splendidumSyncerus caffer

Angola

I.1912

Dr. M. Gamble

Cited: Robinson (1926: 125).

CURRENT DETERMINATIONCURRENT STATUS

N	1948	N	1948
		RML	110866
	<u>Ornithodoros moubata</u>		3 ♂, 4 ♀, 1 N <u>Ornithodoros moubata</u>
	From houses		From houses
	Kibokolo do Zombo, Portuguese Congo, Central Africa		Quibocolo (06.17 S, 15.10 E), Angola
	IV-V.1912		IV-V.1912
	Dr. M. Gamble		Dr. M. Gamble
N	1949, a	N	1949
		RML	110867
	1949) <u>Rhipicephalus sanguineus</u> ♂'s ♀'s		(1949) 8 ♂, 7♀ <u>Rhipicephalus sanguineus</u>
	(a) <u>Haemaphysalis leachi</u> 1♂, 2 ♀		(a) MISSING
	Dog		Dog
	San Salvador, Portuguese Congo, Central Africa		São Salvador do Congo (06.16 S, 14.15 E), Angola
	XI.1912		XI.1912
	Dr. M. Gamble		Dr. M. Gamble The collections comprising N1947-1950 were cited without Nuttall numbers by Gamble (1914:148,149)
N	1950, a-c	N	1950 a-c
		RML	110868
	(1950) <u>Haemaphysalis leachi</u> ♂'s, ♀'s		(1950) MISSING
	(a) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s		(a) 4♂, 6♀ <u>Rhipicephalus senegalensis</u>
	(b) <u>Rhipicephalus sanguineus</u> ♂'s		(b) 2 ♂, 3 ♀ <u>Rhipicephalus sanguineus</u>
	(c) <u>Rhipicephalus lunulatus</u> ♂		(c) 1 ♂ <u>Rhipicephalus lunulatus</u>
	Dog		Dog
	Kibokolo do Zombo, Portuguese Congo, Central Africa		Quibocolo (06.17 S, 15.10 E), Angola
	IV.1911		IV.1911
	Dr. M. Gamble		Dr. M. Gamble

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1951	N	1951 MISSING
	<u>Argas persicus</u>		
	From "General Collection," Claremont, U.S. America		
	1912		
	(No other data)		
N	1952	N	1952 MISSING
	<u>Ixodes ricinus</u> ♂, ♀		
	From "General Collection," Claremont, U.S. America		
	1912		
	(No other data)		
N	1953	N	1953
		RML	110869
	<u>Dermacentor occidentalis</u> ♂		1 ♂ <u>Dermacentor occidentalis</u>
	From "General Collection," Claremont, U.S. America		From "General Collection," Claremont, U.S. America
	1912		1912
	(No other data)		
N	1954	N	1954
		RML	110870
	<u>Haemaphysalis leporis</u> ♀ (small form)		1 ♂, 3 ♀ <u>Haemaphysalis leporispalustris</u>
	From "General Collection," Claremont, U.S. America		From "General Collection," Claremont, U.S. America
	1912		1912
	(No other data)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1955	N	1955
		RML	110871
	<u>Amblyomma</u> sp. N's		1 N <u>Amblyomma</u> sp.
	From "General Collection," Claremont, U.S. America		From "General Collection," Claremont, U.S. America
	1912		1912
	(No other data)		Not a North American species [J.E.K.]
N	1956, a	N	1956, a
		RML	110872
	(1956) <u>Boophilus decoloratus</u> ♀'s (a) <u>Hyalomma aegyptium</u> N's		(1956) 1 ♂, 5 ♀ <u>Boophilus decoloratus</u> (a) 12 N <u>Amblyomma variegatum</u>
	Horse		Horse
	Bole, Northern Territories, Gold Coast, West Africa		Bole (09.02 N, 02.29 W), Ghana
	XI.1912		XI.1912
	Dr. F. G. Thompson		Dr. F. G. Thompson
N	1957	N	1957 MISSING
	<u>Boophilus australis</u> ♂'s, ♀'s		
	Native cow		
	St. Augustice, Trinidad, West Indies		
	4.XII.1912		
	Prof. P. Carmody		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1958, a	N	1958, a
		RML	71481
	(1950) <u>Haemaphysalis bispinosa</u> ♂'s, ♀'s		(1958) 9♀ <u>Haemaphysalis intermedia</u>
	(a) <u>Rhipicephalus haemaphysaloides</u> ♂, ♀		(a) 3 ♀ <u>Rhipicephalus haemaphysaloides</u>
	Sheep		Sheep
	Agricultural College Farm, Coimbatore, S. India		Agricultural College Farm, Coimbatore (11.00 N, 76.58 E), India
	1912		1912
	T. Bainbrigge Fletcher		T. Bainbrigge Fletcher
N	1959	N	1959
		RML	110873
	<u>Ornithodoros savignyi</u> 1 ♀		1 ♂, 4 ♀, 1 N <u>Ornithodoros savignyi</u>
	"Crawling on the ground"		"Crawling on the ground"
	Tiruppur, Combatore District, S. India		Tiruppur, (11.06 N, 77.21 E), India
	VI.1912		VI.1912
	T. Bainbrigge Fletcher		T. Bainbrigge Fletcher
			Note in vial "raised in Cambridge, descended from ticks rec'd. from S. India VI.1912."
Ticks received from Dr. John D. Gimlette, of Kota Bharu, Kelantan, Malay Peninsula, 1.I.1913:-			
N	1960	N	1960
		RML	110874
	<u>Boophilus australis</u> 1 ♂, ♀'s		3 ♂, 46 ♀, <u>Boophilus microplus</u>
	Buffalo		Buffalo
	Kota Bharu, Kelantan, Malay Peninsula		Kota Bharu, Kelantan State (05.20 N, 102.00 E), Malaysia
	16.XI.1912		16.XI.1912
	J. D. Gimlette		J. D. Gimlette

ORIGINAL DETERMINATIONCURRENT STATUS

N	1961	N	1961
		RML	110875
	<u>Boophilus australis</u> ♂'s, ♀'s		7 ♂, 44 ♀, 2 N <u>Boophilus microplus</u>
	Stag		Stag
	Kota Bharu, Kelantan, Malay Peninsula		Kota Bharu, Kelantan State (05.20 N, 102.00E), Malaysia
	27.XI.1912		27.XI.1912
	J. D. Gimlette		J. D. Gimlette
N	1962	N	1962
		RML	110876
	<u>Boophilus australis</u> ♀'s & N's		2 ♀, 3 N <u>Boophilus microplus</u>
	Bull		Bull
	Kota Bharu, Kelantan, Malay Peninsula		Kota Bharu, Kelantan State (05.20 N, 102.00 E), Malaysia
	27.XI.1912		27.XI.1912
	Dr. J. D. Gimlette		Dr. J. D. Gimlette
N	1963	N	1963
		RML	110877
	<u>Boophilus australis</u> ♀'s & N's		2 ♀, 1 N <u>Boophilus microplus</u>
	Calf		Calf
	Kota Bharu, Kelantan, Malay Peninsula		Kota Bharu, Kelantan State (05.20 N, 102.00 E), Malaysia
	10.XI.1912		10.XI.1912
	Dr. J. D. Gimlette		Dr. J. D. Gimlette

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1964	N	1964
		RML	110878
	<u>Boophilus australis</u> L's & N's		3 N, 2 L <u>Boophilus microplus</u>
	Goat		Goat
	Kota Bharu, Kelantan, Malay Peninsula		Kota Bharu, Kelantan State (05.20 N, 102.00 E), Malaysia
	27.XI.1912		27.XI.1912
	Dr. J. D. Gimlette		Dr. J. D. Gimlette
N	1965	N	1965
		RML	110879
	<u>Boophilus australis</u> ♀'s		9 ♀, 1 N <u>Boophilus microplus</u>
	Bull		Bull
	Kota Bharu, Kelantan, Malay Peninsula		Kota Bharu, Kelantan State (05.20 N, 102.00 E), Malaysia
	10.XI.1912		10.XI.1912
	Dr. J. D. Gimlette		Dr. J. D. Gimlette
N	1966	N	1966
		RML	110880
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s & N's		42 ♂, 39 ♀, 3 N <u>Rhipicephalus sanguineus</u>
	Chow dog		Chow dog
	Hong Kong, China		Hong Kong (22.15 N, 114.11 E)
	13.XII.1912		13.XII.1912
	Dr. F. Lindsay-Woods		Dr. F. Lindsay-Woods

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1967	N	1967
		RML	110881
	<u>Boophilus australis</u> ♀'s		15 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Mayaguez, Porto Rico, West Indies		Mayaguez (18.12 N, 67.09 W), Puerto Rico
	17.XII.1912		17.XII.1912
	Rec'd from Dr. C. W. Hooker		Charles Worcester Hooker (1883-1913) Entomologist to the Federal Experiment Station and plant inspector of the port of Mayaguez, Puerto Rico. Died at age 30 of appendicitis
N	1968	N	1968
		RML	110882
	<u>Boophilus annulatus</u> ♀'s		5 ♀, 4 N <u>Anocentor nitens</u>
	Horse		Horse
	Mayaguez, Porto Rico, West Indies		Mayaguez (18.12 N, 67.09 W), Puerto Rico
	7.VIII.1912		7.VIII.1912
	Rec'd from Dr. C. W. Hooker 8.I.1913		Rec'd from Dr. C. W. Hooker 8.I.1913
	Ticks received from Dr. A. Brown, Serenje, N. Rhodesia, B.C. Africa, 13.I.1913:-		
N	1969	N	1969
		RML	110883
	<u>Boophilus decoloratus</u> ♀'s		22 ♀ <u>Boophilus decoloratus</u>
	Cow		Cow
	Serenje, N. Rhodesia		Serenje (13.14 S, 30.14 E), Zambia
	XII.1912		XII.1912
	Dr. A. Brown		Dr. A. Brown

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1970	N	1970 MISSING
<u>Ornithodoros moubata</u> "human ticks"			
Serenje, N. Rhodesia			
XII.1912			
Dr. A. Brown			
2 adults, N's to Prof. Dr. Dahl, Berlin Museum VII.1914.			
2 adults, N's to Prof. Dr. S. Schenkling, Deutsches Entomol. Mus. VII.1914.			
2 adults, N's to Prof. Dr. R. Gestro, Museo Civico di Storia Nat. Genova VII.1914.			
N	1971, a	N	1971a
(1971) <u>Haemaphysalis leachi</u> ♀'s		(1971) MISSING	
(a) <u>Rhipicephalus capensis</u> ♀		(a) 1 ♀ <u>Rhipicephalus compositus</u>	
Dog		Dog	
Serenje, N. Rhodesia		Serenje (13.14 S, 30.14 E), Zambia	
XII.1912		XII.1912	
Dr. A. Brown		Dr. A. Brown	
Ticks received from Dr. J.G..F. Hosken, Morro Vellis, Villa Nova de Lima, Minas Geraes, Brazil, South America, 14.I.1913:-			
N	1972	N	1972 MISSING
<u>Amblyomma cajennense</u> N's			
Dog			
Minas Geraes, Brazil, S. America			
XII.1912			
Dr. J.G.F. Hosken			

ORIGINAL DETERMINATIONCURRENT STATUS

N	1973	N	1973
		RML	110885
	<u>Amblyomma cajennense</u> ♀'s & N's		4 ♀, 3 N <u>Amblyomma cajennense</u>
	Horse		Horse
	Minas Geraes, Brazil, S. America		Estado do Minas Gerais (18.00 S, 44.00 W), Brazil
	XII.1912		XII.1912
	Dr. J.G.F. Hosken		Dr. J.G.F. Hosken
			Cited: Robinson (1926: 53).
N	1974, a	N	1974
		RML	110886
	(1974) <u>Boophilus australis</u> ♀'s		(1974) 3 ♀ <u>Boophilus microplus</u>
	(a) <u>Amblyomma cajennense</u> 1 ♀		(a) MISSING
	Bullock		Bullock
	Minas Geraes, Brazil, S. America		Minas Gerais (18.00 S, 44.00 W), Brazil
	XII.1912		XII.1912
	Dr. J.G.F. Hosken		Dr. J.G.F. Hosken
	Ticks received from E. J. Wortley, Esq., Department of Agriculture, Hope, Kingston P.O., Jamaica, West Indies, 16 January 1913:-		
N	1975, a, b	N	1975a
		RML	110887
	(1975) <u>Amblyomma cajennense</u> 2 ♂'s		(1975) MISSING
	(a) <u>Dermacentor nitens</u> ♂'s, ♀'s & N		(a) 27 ♂, 14 ♀, 12 N <u>Anocentor nitens</u>
	(b) <u>Boophilus australis</u> ♂'s, ♀'s		(b) MISSING
	Ears of horses		Horses
	Hope, Jamaica, West Indies		Hope, Jamaica (locality not verified; 5 possible localities)
	6.XII.1912		6.XII.1912
	E. J. Wortley		E. J. Wortley

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1976	N	1976
		RML	110888
	<u>Boophilus annulatus</u> ♀'s & eggs		10 ♀ <u>Boophilus microplus</u>
	Cow (suffering from Texas fever)		Cow
	Hope, Jamaica, West Indies		Hope, Jamaica (locality not verified; 5 possible localities)
	4.XII.1912		4.XII.1912
	E. J. Wortley		E. J. Wortley
N	1977	N	1977
		RML	110889
	<u>Argas persicus</u>		1 ♂, 5 ♀ <u>Argas miniatus</u>
	Fowls		Fowls
	Hope, Jamaica, W. Indies		Hope, Jamaica (locality not verified; 5 possible localities)
	XII.1912		XII.1912
	E. J. Wortley		E. J. Wortley
	[Some alive. Try on fowl to see if infected with <u>Spirochaetosis</u>]		1 ♀ is considered a tentative identification because of a destroyed genital aperture. 1 cast skin is also present
N	1978	N	1978 MISSING
	<u>Boophilus annulatus</u> ♀'s & L		
	Cow (suffering from Texas fever)		
	Hope, Jamaica, W. Indies		
	4.XII.1912		
	E. J. Wortley		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1979

N 1979

RML 110890

Haemaphysalis howletti 1 ♂, 1 ♀
TYPES1 ♂, 1 ♀ Haemaphysalis howletti
Lectotype & Paralectotype

Hill pony

Hill pony

Rawalpindi, Punjab, India

Rawalpindi (33.36 N, 73.04 E),
Pakistan

?Date

?Date

F. M. Howlett

F. M. Howlett

Warburton (1913: 123, figs. 2, 3)
original description. Nuttall &
Warburton (1915: 494), stated the
collection date as 1912; Dhanda
(1964: 459). Lectotype designated:
Keirans & Brewster (1981: 161).

N 1980

N 1980 MISSING

Haemaphysalis aborensis TYPE!

Grass

Yambung (1,100 ft.) India

13-17.I.1912

S. W. Kemp

Indian Mus. 1251
17

ORIGINAL DETERMINATIONCURRENT STATUS

N	1981	N	1981
		RML	70082
	<u>Haemaphysalis aciculifer</u> 1 ♂, 1 ♀ TYPES		1 ♂, 1 ♀ <u>Haemaphysalis aciculifer</u> Lectotype and paralectotype
	<u>Cobus thomasi</u>		<u>Kobus kob thomasi</u>
	N.E. Shore of Lake Edward, Uganda		N.E. Shore of Lake Edward (00.25 S, 29.30 E), Uganda
	X.1910		X.1910
	S. A. Neave		S. A. Neave
	[ex. Ent. Res. Com 463a]		Warburton (1913: 125, figs. 4, 5) original description. Nuttall & Warburton (1915: 413) cited this collection but did not give a Nuttall number. Hoogstraal & El Kammah (1972: 765). Lectotype designated: Keirans & Brewster (1981: 158).
N	1982	N	1982
		RML	110891
	<u>Boophilus australis</u> ♀'s		93 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Hong Kong, China		Hong Kong (22.15 N, 114.11 E)
	XII.1913		XII.1913
	Rec'd from Dr. J. Bell, Superintendent, Civil Hospital, Hong Kong		Rec'd from Dr. J. Bell Superintendent, Civil Hospital, Hong Kong

ORIGINAL DETERMINATIONCURRENT STATUS

N	1983	N	1983
		RML	110892
	<u>Boophilus annulatus</u>		57 ♂ <u>Boophilus annulatus</u>
	On skin of cattle		Cattle
	Bagdad, Asiatic Turkey		Baghdad (33.21 N, 44.25 E), Iraq
	Rec'd 21.I.1913		Rec'd 21.I.1913
	Rec'd from Professor E. Gotschlich, of Alexandria, Egypt		Rec'd from Professor E. Gotschlich, of Alexandria, Egypt
N	1984	N	1984
		RML	110893
	<u>Aponomma</u> sp. N's		11 N, 12 L <u>Amblyomma</u> sp.
	Coral snake (<u>Elaps</u> sp.)		<u>Elaps</u> sp.
	Panama, Central America		Panama
	XII.1912		XII.1912
	Dr. S. T. Darling		Dr. S. T. Darling
N	1985	N	1985
		RML	110894
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s, N's		3 ♂, 4 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Chiengmai, Siam		Chiang Mai (18.47 N, 98.59 E), Thailand
	27.XI.1912		27.XI.1912
	Dr. A. G. Kerr		Dr. A. G. Kerr

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1986	N	1986
		RML	110895
	<u>Boophilus australis</u> 1♂, ♀'s & N's		1 ♂, 10 ♀, 6 N <u>Boophilus microplus</u>
	Cattle		Cattle
	Chiengmai, Siam		Chiang Mai (18.47 N, 98.59 E), Thailand
	28.XI.1912		28.XI.1912
	Dr. McKean		Dr. McKean
	Received from Dr. A.F.G. Kerr, Chiengmai, Siam, Farther India, 28.I.1913		
N	1987	N	1987
		RML	110896
	<u>Haemaphysalis hirudo</u>		2 ♀ <u>Haemaphysalis concinna</u>
	Amur River, E. Siberia		Amur River (52.56 N, 141.10 E), U.S.S.R.
	28.VI.1899		28.VI.1899
	Dickmann		Dickmann
	[Presented to Professor G.H.F. Nuttall, F.R.S., by the Hamburg Museum, Germany (per Prof. Dr. v. Brunn), 27.I.1913]		Cited: Nuttall & Warburton (1915: 457) but without Nuttall number.
N	1988	N	1988
		RML	110897
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		86 ♂, 22 ♀, 6 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Hong Kong, China		Hong Kong (22.15 N, 114.11 E)
	I.1913		I.1913
	Rec'd from Dr. J. Bell		Rec'd from Dr. J. Bell, 29.I.1913
	29.I.1913		This collection also contained 2 ♀ <u>Heterodoxus spiniger</u> (Mallophaga)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1989	N	1989
		RML	110898
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		4 ♂, 8 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Hyderabad, Deccan, India		Hyderabad (17.23 N, 78.28 E), India
	15.XII.1912		15.XII.1912
	Rec'd from Dr. S. Mallanneh 3.II.1913		Rec'd from Dr. S. Mallanneh 3.II.1913
N	1990, a	N	1990, a
		RML	110899
	(1990) <u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		(1990) 5 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	(a) <u>Hyalomma aegyptium</u> ♀		(a) 1 ♀ <u>Hyalomma a. anatolicum</u>
	(1990) Dog		(1900) Dog
	(a) Horse		(a) Horse
	Hyderabad, Deccan, India		Hyderabad (17.23 N, 78.28 E), India
	9.I.1913		9.I.1913
	Rec'd from Dr. S. Mallanneh, 3.II.1913		Rec'd from Dr. S. Mallanneh, 3.II.1913
			1990a cited: Kaiser & Hoogstraal (1964: 272).
N	1991	N	1991
		RML	110900
	<u>Rhipicephalus sanguineus</u> ♂'s ♀'s		4 ♂, 4 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Brymbo near Wrexham, North Wales, Great Britain		Brymbo (53.04 N, 03.04 W), Wales
	XII.1912		XII.1912
	Dr. R. E. Montgomery		Dr. R. E. Montgomery

ORIGINAL DETERMINATIONCURRENT STATUS

N	1992, a	N	1992, a
	(1992) <u>Boophilus australis</u> ♂'s ♀'s	RML	110901
	(a) <u>Amblyomma cajennense</u> 1 ♀		(1992) MISSING
	Sheep		(a) 1 ♀ <u>Amblyomma cajennense</u>
	Hope, Jamaica, West Indies		Sheep
	4.XII.1912		Hope, Jamaica (locality not verified; 5 possible localities)
	E. J. Wortley		4.XII.1912
			E. J. Wortley
			Cited: Robinson (1926: 53).
N	1993	N	1993 MISSING
	<u>Boophilus australis</u> ♀'s		
	Half-bred Zebu		
	Trinidad, West Indies		
	5.XII.1912		
	Rec'd from Professor P. Carmody,		
	4.II.1913		
N	1994	N	1994 MISSING
	<u>Boophilus australis</u> ♀'s		
	Bull, pure-bred short-horn		
	Trinidad, West Indies		
	5.XII.1912		
	Prof. P. Carmody		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1995	N	1995	MISSING
	<u>Argas persicus</u>			
	From cracks in woodwork of fowl house			
	Kingston, Jamaica, West Indies			
	I.1913			
	Rec'd from E. J. Barclay, Esq., Sec'y., Jamaica Agricultural Society, 27.I.1913			
N	1996	N	1996	MISSING
	<u>Haemaphysalis cornigera</u> var. <u>anomala</u>			
	1 ♂ TYPE			
	Wolf			
	4 miles W. of Koderma Station, Chota Nagpur, India			
	9.VIII.1912			
	Major O. A. Smith			
	[Indian Mus. Coll. $\frac{1524}{17}$ a]			
N	1997	N	1997	
		RML	110902	
	<u>Haemaphysalis kinneari</u> 1 ♀ TYPE!		1 ♀ <u>Haemaphysalis kinneari</u> Holotype	
	Tiger (<u>Felis tigris</u>)		<u>Panthera tigris</u>	
	Kadra, Kanara, India		Kadra (14.54 N, 74.22 E), India	
	XI.1910		XI.1910	
	N. B. Kinnear		N. B. Kinnear	
			♀ vulva mounted on a slide Warburton (1913: 127, fig. 6) original description. Cited: Nuttall & Warburton (1915: 398); Trapido et al (1964a: 178).	

ORIGINAL DETERMINATIONCURRENT STATUS

N 1998

N 1998

RML 110903

Haemaphysalis spinigera ♂ & ♀1 ♂, 1 ♀ Haemaphysalis spinigeraTiger (Felis tigris)Panthera tigris

Kadra, Kanara, India

Kadra (14.54° N, 74.22° E), India

XI.1910

XI.1910

N. B. Kinnear

N. B. Kinnear

Cited & figured: Nuttall & Warburton
(1915: 448,449).Ticks received from Dr. S. T. Darling, Board of Health Laboratory, Ancon,
Canal Zone, Panama, 7.II.1913:-

N 1999

N 1999

RML 110904

Dermacentor nitens ♂'s3 ♂ Anocentor nitens

Horse

Horse

Ancon, Panama

Ancon (09.58° N, 79.33° W), Panama

13.I.1913

13.I.1913

Dr. S. T. Darling

Dr. S. T. Darling

Horse suffering from piroplasmiasis

N 2000

N 2000

RML 110905

Amblyomma cajennense ♂, ♀1 ♂, 1 ♀ Amblyomma cajennense

Horse

Horse

Ancon, Panama

Ancon (08.58° N, 79.33° W), Panama

13.I.1913

13.I.1913

Dr. S. T. Darling

Dr. S. T. Darling

Cited: Robinson (1926: 53).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2001

N 2001

RML 22312

Amblyomma integrum 3 ♀'s3 ♀ Amblyomma integrum

Taken off "own person"

Homo sapiens

Ceylon

Sri Lanka

Rec'd. II.1913

Rec'd. II.1913

Mr. J. S. Fryer

Mr. J. S. Fryer

L.E.R. det. 1926

Three slides of dissections

♀ hypostome

♀ spiracular plate

♀ legs I & IV

Cited: Robinson (1926: 114).

Ticks retained from those sent for determination by Mr. B. Kinnear, Bombay, India; rec'd. 4.XI.1912:-

N 2002

N 2002

RML 110906

Haemaphysalis bispinosa ♀1 ♀ Haemaphysalis turturisTiger (Felis tigris)Panthera tigris

Kadra, Kanara, India

Kadra (14.54 N, 74.22 E), India

XI.1910

XI.1910

N. B. Kinnear

Cited: Nuttall & Warburton
(1915:432).C. W. det. as H. bispinosa 1933.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2003

N 2003

RML 110907

Haemaphysalis leachi var.
indica ♂'s, 1 ♀, 1 N2 ♂, 1 ♀, 2 N Haemaphysalis indicaCanis indicusCanis aureus indicus

Alibagh, Bombay, India

Alibag (18.39 N, 42.54 E), India

25.I.1912

25.I.1912

N. B. Kinnear

N. B. Kinnear

(Rec'd. with Nos. 1997 & 1998)

Nymphal determinations tentative.
Vial label for the nymphs is
incorrectly numbered N 2002.Ticks received from Dr. J. Preston Maxwell, The Hospital, Yungchun, via
Amoy, China, 10. February, 1913:-

N 2004

N 2004

RML 110908

Boophilus australis ♂'s, ♀'s1 ♂, 61 ♀ Boophilus microplus

Cow

Cow

Central Fukien, South China

Fukien Province, now Fu-Chien Sheng
(26.00 N, 118.00 E), Peoples Republic
of China

XI.1912

XI.1912

Dr. J. Preston Maxwell

Dr. J. Preston Maxwell

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2005	N	2005
		RML	110909
	<u>Boophilus australis</u> ♂'s, ♀'s		8 ♂, 23 ♀, 3 N <u>Boophilus microplus</u>
	Goat		Goat
	Central Fukien, South China		Fukien Province now Fu-Chien Sheng (26.00 N, 118.00 E), Peoples Republic of China
	XI.1912		XI.1912
	Dr. J. Preston Maxwell		Dr. J. Preston Maxwell
N	2006	N	2006
		RML	110910
	<u>Haemaphysalis</u> sp. nymphs		8 N <u>Haemaphysalis</u> sp.
	Dog		Dog
	Central Fukien, South China		Fukien Province now Fu-Chien Sheng (26.00 N, 118.00 E), Peoples Republic of China
	XI.1912		XI.1912
	Dr. J. Preston Maxwell		Dr. J. Preston Maxwell
N	2007	N	2007
		RML	110911
	<u>Boophilus australis</u> ♂'s, ♀'s		6 ♂, 56 ♀, 1 N <u>Boophilus microplus</u>
	Cow		Cow
	Central Fukien, South China		Fukien Province now Fu-Chien Sheng (26.00 N, 118.00 E), Peoples Republic of China
	XI.1912		XI.1912
	Dr. J. Preston Maxwell		Dr. J. Preston Maxwell

Two tubes of ticks received from Dr. E. M. Ehrhorn, Board of Commissioners of Agriculture and Forestry (Division of Entomology), Honolulu, Hawai Islands, 18 February, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2008	N	2008
		RML	110912
	<u>Rhipicephalus sanguineus</u> ♂, ♀, N		1 ♂, 1 ♀, 1 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Honolulu, Hawai Islands		Honolulu (21.19 N, 157.52 W) Hawaii, U.S.A.
	20.VIII.1912		20.VIII.1912
	E. M. Ehrhorn		E. M. Ehrhorn
			Edward Macfarlane Ehrhorn (1862-1941), educated in Germany 1871-1878. One of the pioneer workers in plant quarantine began working in Honolulu in 1909. Died 11.II.1941 at age 79.
N	2009	N	2009
		RML	110913
	<u>Rhipicephalus sanguineus</u> ♀'s		4 ♂, 8 ♀ <u>Rhipicephalus sanguineus</u>
	"in shed where dog was sleeping"		"in shed where dog was sleeping"
	Honolulu, Hawai Islands		Honolulu (21.19 N, 157.52 W) Hawaii, U.S.A.
	22.I.1913		22.I.1913
	E. M. Ehrhorn		E. M. Ehrhorn

ORIGINAL DETERMINATIONCURRENT STATUS

N	2010	N	2010
		RML	110914
	<u>Amblyomma dissimile</u> ♂'s, ♀'s, N's		10 ♂, 1 ♀, 9 N <u>Amblyomma dissimile</u>
	Snake		Snake
	Trinidad, British West Indies		Trinidad
	II.1913		II.1913
	Rec'd from Professor P. Carmody, 19.II.1913		Rec'd from Professor P. Carmody, 19.II.1913
			Cited: Robinson (1926: 167).
	Ticks retained from collection sent for determination by Dr. J. H. Ashworth, Zoological Dep't., The University, Edinburgh, N.B., 19 February, 1913:-		
N	2011	N	2011
		RML	66664
	<u>Ornithodoros savignyi</u>		11 ♂, 6 ♀, 316 N <u>Ornithodoros savignyi</u>
	No data		See N 1550 for comment relating to this collection
	J.H.A.		
	[Used for raising experiments]		
N	2012	N	2012 MISSING
	<u>Haemaphysalis leachi</u> ♀		
	Dog		
	Bongandanga, Upper Congo, Africa		
	1912		
	W. D. Armstrong		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2013	N	2013
		RML	110915
	<u>Argas persicus</u> larvae		4 L <u>Argas persicus</u>
	Fowl		Fowl
	Sokoto, N. Nigeria, West Africa		Sokoto (13.04 N, 05.15 E), Nigeria
	1912		1912
	Dr. J. M. Dalziel		Dr. J. M. Dalziel
N	2014	N	2014
		RML	110916
	<u>Aponomma exornatum</u> 2 ♂'s		2 ♂ <u>Aponomma exornatum</u>
	<u>Varanus niloticus</u>		<u>Varanus niloticus</u>
	Benin River, West Africa		Benin River (05.45 N, 05.04 E), Nigeria
	1912		1912
N	2015	N	2015
		RML	110917
	<u>Aponomma</u> sp. N's		3 N <u>Aponomma</u> sp.
	<u>Varanus niloticus</u>		<u>Varanus niloticus</u>
	Benin River, West Africa		Benin River (05.45 N, 05.04 E), Nigeria
	X.1912		X.1912
	Stewart		Stewart

ORIGINAL DETERMINATIONCURRENT STATUS

N 2016

Boophilus australis 2 ♂'s, ♀'s

Ox

Dominica, Leeward Islands

31.I.1913

Dr. A. A. Myers

Rec'd 19.II.1913

N 2017

Aponomma laeve var. paradoxum
♂'s, ♀

Tuberculated Iguanas

Zoological Society's Gardens,
London N.W.

II.1913

(Original locality not mentioned)
[Z S "36"]

N 2016 MISSING

N 2017

RML 110918

6 ♂, 2 ♀ Aponomma pattoni

Iguanas, tuberculated

Zoological Society's Gardens,
London, England

II.1913

Ticks received back from the Imperial Bureau of Entomology (ex Report No. 26), London, S.W., 21.II.1913.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2018	N	2018
		RML	110919
	<u>Amblyomma tholloni</u> 3 ♂'s		3 ♂ <u>Amblyomma tholloni</u>
	Elephant		<u>Loxodonta africana</u>
	Near Kafu River, Uganda, Africa		Near Kafu River (00.05 S, 30.09E), Uganda
	24.X.1912		24.X.1912
	F. A. Knowles		F. A. Knowles
	"611"		There are 3 other rivers named Kafu in Uganda. However, I have selected this as the most logical collecting site because the Entomological Research Committee, forerunner of the Imperial Bureau of Entomology, is known to have been working in the Kingdom of Ankole within which this river Kafu flows - see also N 1717.
			Cited: Robinson (1926: 2 ⁵²).
N	2019	N	2019
		RML	110920
	<u>Dermacentor circumguttatus</u> ♂'s, 1 ♀		3 ♂, 1 ♀ <u>Dermacentor circumguttatus</u>
	Elephant		<u>Loxodonta africana</u>
	Near Kafu River, Uganda, Africa		Near Kafu River (00.05 S, 30.09 E), Uganda
	24.X.1912		24.X.1912
	F. A. Knowles		F. A. Knowles
	"612"		See comment under N 2018

ORIGINAL DETERMINATIONCURRENT STATUS

N	2020	N	2020
		RML	110921
	<u>Amblyomma cohaerens</u> ♂'s, ♀'s		3 ♂, 1 ♀ <u>Amblyomma cohaerens</u>
	Buffalo		<u>Syncerus caffer</u>
	Shot near Mchera River, Ankole, Uganda, Africa		Possibly Mchuera now Nchwera River (00.25 S, 29.45 E), Uganda
	22.VIII.1912		22.VIII.1912
	Dr. R. E. McConnell		Dr. R. E. McConnell
	"613"		Cited: Robinson (1926: 110).
N	2021	N	2021
		RML	110922
	<u>Ornithodoros moubata</u>		3 ♂, 2 ♀, 3 N <u>Ornithodoros moubata</u>
	Old native hut		Old native hut
	Caia, Zambesi River, Portuguese East Africa		Caia (25.19 S, 32.58 E), Peoples Republic of Mozambique
	1912		1912
	Dr. H. Swale		Dr. H. Swale
	"616"		Probably <u>O. moubata porcinus</u>
N	2022	N	2022
		RML	110923
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		2 ♂, 3 ♀ <u>Amblyomma variegatum</u>
	Sena, Portuguese East Africa		Vila de Sena (17.26 S, 35.02 E), Peoples Republic of Mozambique
	22.II.1910		22.II.1910
	Senhor José de O. S. de Azevedo		Senhor José de O. S. de Azevedo
	"626"		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2023	N	2023
		RML	110924
	<u>Ornithodoros lahorensis</u> N's		25 N <u>Ornithodoros lahorensis</u>
	Sheep		Sheep
	Srinagar, Kashmir, India		Srinagar (34.05 N, 74.49 E), India
	I.1913		I.1913
	Rec'd from Dr. A. Neve 22.II.1913		Rec'd from Dr. A. Neve 22.II.1913
Ticks received from Dr. Thomas S. Dunn, Assistant Commissioner, Hlatikule, Swaziland, Transvaal, S. Africa 24.II.1913:-			
N	2024	N	2024
		RML	110925
	<u>Ornithodoros moubata</u>		4 ♂, 4 ♀, 10 N <u>Ornithodoros moubata</u>
	From huts		From huts
	Hlatikul ^u , Swaziland, S. Africa		Hlatikulu District (27.00 S, 31.40 E), Republic of South Africa
	23.I.1913		23.I.1913
	Dr. T. S. Dunn		Dr. T. S. Dunn
	[Note: Said by natives to cause "Fever." Native name: "Mahonondo"]		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2025, a, b

(2025) Rhipicephalus
appendiculatus ♂'s, ♀'s
(a) Rhipicephalus evertsi ♂
(b) Rhipicephalus simus ♀

Horse (English mare)

Hlatiulu, Swaziland, S. Africa

23.I.1913

Dr. T. S. Dunn

Horse suffering from biliary fever

N 2026

Rhipicephalus simus ♂'s, ♀'s

Dogs

Hlatikulu (4,000 ft),
Swaziland, S. Africa

28.I.1913

Dr. T. S. Dunn

N 2025, a, b

RML 110926

(2025) 4 ♂, 5 ♀ Rhipicephalus
appendiculatus
(a) 1 ♀ Rhipicephalus evertsi
(b) 1 ♀ Rhipicephalus simus

Horse

Hlatikulu District (27.00 S, 31.40 E),
Republic of South Africa

23.I.1913

Dr. T. S. Dunn

N 2026

RML 110927

4 ♂, 3 ♀ Rhipicephalus simus

Dogs

Hlatikulu District (27.00 S, 31.40 E),
Republic of South Africa

28.I.1913

Dr. T. S. Dunn

Ticks received from Dr. W. C. Wigan, U.M.C.A. Mpondar, Fort Johnston, Nyasaland, B. C. Africa 24.II.1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2027	N	2027 MISSING
<u>Ornithodoros moubata</u>			
From a boy's dormitory			
Malindi, Brit. East Africa			
I.1913			
Dr. W. C. Wigan			
Some (sex/stage not stated) to Prof. O. Duboscq, Montpellier, France 10.II.1914			
Ticks retained from the collection sent for determination by Dr. M. B. Mitzmain, Veterinary Entomologist, Veterinary Research Laboratory, Alabang, Rizal, Philippine Islands, 17 February, 1913.			
N	2028	N	2028
		RML	110928
<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		3 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>	
Native dog		Native dog	
Occidental Negros, P.I.		Province of Negros Occidental (10.25 N, 123.00 E), Republic of the Philippines	
14.XI.1911		14.XI.1911	
N	2029	N	2029
		RML	110929
<u>Argas vespertilionis</u> 1 adult		1 ♀ <u>Argas vespertilionis</u>	
Bat's nest		Bat's nest	
Manila, P.I.		Manila (14.35 N, 121.00 E), Republic of the Philippines	
12.XI.1910		12.XI.1910	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2030	N	2030
		RML	110930
	<u>Argas vespertilionis</u> larvae		4 L <u>Argas vespertilionis</u>
	Brown house bat		Brown house bat
	Manila, P.I.		Manila (14.35 N, 121.00 E), Republic of the Philippines
	30.X.1910		30.X.1910
N	2031	N	2031
		RML	110931
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	La Carlota, Occidental Negros, P.I.		La Carlota (10.25 N, 122.55 E), Republic of the Philippines
	11.XI.1911		11.XI.1911
N	2032	N	2032
		RML	110932
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		4 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	Collie dog		Dog (Collie)
	Alabang, Rizal, P.I.		Alabang (14.25 N, 121.03 E), Republic of the Philippines
	VII.1912		VII.1912
N	2033	N	2033
		RML	110933
	<u>Boophilus australis</u> ♀'s		9 ♀ <u>Boophilus microplus</u>
	Indo-Chinese cattle		Cattle, Indo-Chinese
	Manila, P.I.		Manila (14.35 N, 121.00 E), Republic of the Philippines
	XII.1911		XII.1911

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2034	N	2034
		RML	110934
	<u>Boophilus australis</u> ♀'s		5 ♀ <u>Boophilus microplus</u>
	Indo-Chinese cattle		Cattle, Indo-Chinese
	Manila, P.I.		Manila (14.35 N, 121.00 E), Republic of the Philippines
	1.XI.1910		1.XI.1910
N	2035	N	2035
		RML	110935
	<u>Boophilus australis</u> ♀'s		5 ♀ <u>Boophilus microplus</u>
	Indo-Chinese cattle		Cattle, Indo-Chinese
	Manila, P.I.		Manila (14.35 N, 121.00 E), Republic of the Philippines
	1.XI.1910		1.XI.1910
N	2036	N	2036
		RML	110936
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		15 ♂, 23 ♀ <u>Rhipicephalus sanguineus</u>
	Collie dog		Dog, Collie
	Alabang, Rizal, P.I.		Alabang (14.25 N, 121.03 E), Republic of the Philippines
	VII.1912		VII.1912
N	2037	N	2037
		RML	110937
	<u>Boophilus australis</u> ♀'s		6 ♀ <u>Boophilus microplus</u>
	Indo-Chinese cattle		Cattle, Indo-Chinese
	Manila, P.I.		Manila (14.35 N, 121.00 E), Republic of the Philippines
	31.X.1910		31.X.1910

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2038	N	2038
		RML	110938
	<u>Aponomma gervaisi</u> var. <u>lucasi</u> ♂'s & ♀		8 ♂, 1 ♀ <u>Aponomma trimaculatum</u>
	Large lizard (Iguana or Monitor)		Large lizard (Iguana or Monitor)
	Polo, Bulacan Province, P.I.		Probably Polo (15.01 N, 120.44 E) Province of Bulacan, Republic of the Philippines
	18.IV.1911		18.IV.1911
N	2039	N	2039
		RML	110939
	<u>Rhipicephalus sanguineus</u> ♂, ♀, N		1 ♂, 3 ♀, 1 N <u>Rhipicephalus sanguineus</u>
	Bull dog		Dog, Bull
	Rizal Province, P.I.		Province of Rizal (14.35 N, 121.10 E), Republic of the Philippines
	19.IX.1911		19.IX.1911
N	2040	N	2040
		RML	110940
	<u>Ornithodoros moubata</u>		52 ♂, 23 ♀, 1098 N <u>Ornithodoros moubata</u>
	From huts		From huts
	Livingstone, N. Rhodesia, S. Africa		Livingstone (17.51 S, 25.52 E), Zambia
	4.II.1913		4.II.1913
	Rec'd from Dr. D. S. MacKnight 3.III.1913		Rec'd from Dr. D. S. MacKnight 3.III.1913
	[Used for raising experiments]		
	Some (sex/stage not stated) to Dr. de Blieck, Java 22.I.1915		

Ticks received from L. C. Heath, Esq., Native Commissioner, Mumbwa, Baluba District, Broken Hill, N. Rhodesia, B.C. Africa, 3 March, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2041, a, b	N	2041, a
		RML	110941
	(2041) <u>Rhipicephalus sculptus</u> ♂'s, ♀'s		(2041) 12 ♂, 3 ♀ <u>Rhipicephalus sculptus</u>
	(a) <u>Amblyomma variegatum</u> ♂		(a) 1 ♂ <u>Amblyomma pomposum</u>
	(b) <u>Hyalomma aegyptium</u> ♂, ♀		(b) MISSING
	Zebra		<u>Equus burchelli</u>
	Near Mulendemas, Baluba, N. Rhodesia		Near Mulendema (15.14 S, 26.40 E), Zambia
	6.I.1913		6.I.1913
	L. C. Heath		L. C. Heath
			Cited: Santos Dias (1958: 479).
N	2042	N	2042 MISSING
	<u>Amblyomma variegatum</u> 1 ♂		
	Water-buck		
	Near Chikunis, Baluba, N. Rhodesia		
	7.I.1913		
	L. C. Heath		
N	2042 a	N	2042 a
		RML	110942
	<u>Ixodes ricinus</u> ♂'s, ♀'s		1 ♂, 4 ♀ <u>Ixodes ricinus</u>
	Irish hare		<u>Lepus timidus</u>
	Waterford, Ireland		Waterford (52.15 N, 07.06 W), Ireland
	26.IX.1905		26.IX.1905
			Cited: Nuttall (1916: 332).

Ticks received from Dr. S. Hadwen, Agassiz, British Columbia, Canada
3 March, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2043	N	2043
		RML	110943
	<u>Dermacentor venustus</u> ♂, ♀		1 ♂, 1 ♀ <u>Dermacentor andersoni</u>
	<u>Sciurus hudsonicus douglasi</u>		<u>Tamiasciurus d. douglasi</u>
	Merritt, British Columbia		Merritt (50.07 N, 120.47 W), British Columbia, Canada
	VIII.1912		VIII.1912
N	2044	N	2044
		RML	110944
	<u>Dermacentor venustus</u> N's		2 N <u>Dermacentor andersoni</u>
	<u>Sciurus hudsonicus douglasi</u>		<u>Tamiasciurus d. douglasi</u>
	Merritt, British Columbia		Merritt (50.07 N, 120.47 W), British Columbia, Canada
	VIII.1912		VIII.1912
N	2045	N	2045
		RML	110945
	<u>Ornithodoros megnini</u> adult		1 ♀ <u>Otobius lagophilus</u>
	Jack Rabbit (<u>Lepus americanus</u>)		<u>Lepus americanus</u>
	Lethbridge, Alberta, British Columbia		Lethbridge (49.42 N, 112.50 W), Alberta, Canada
	2.X.1912		2.X.1912
	Dr. S. Hadwen		Dr. S. Hadwen

ORIGINAL DETERMINATIONCURRENT STATUS

N	2046	N	2046
		RML	110946
	<u>Ornithodoros megnini</u> N's		4 N <u>Otobius lagophilus</u>
	<u>Lepus americanus</u>		<u>Lepus americanus</u>
	Lethbridge, Alberta, British Columbia		Lethbridge (49.42 N, 112.50 W), Alberta, Canada
	2.X.1912		2.X.1912
	Dr. S. Hadwen		Dr. S. Hadwen
Ticks retained from Dr. M. B. Mitzmain's collection (see also Nos. 2028-2039), Philippine Islands, 6 March, 1913:-			
N	2047	N	2047
		RML	110947
	<u>Ixodes hexagonus</u> var. <u>cookei</u> 1 ♀ & N's		1 ♀, 3 N <u>Ixodes sculptus</u>
	<u>Putorius xanthogenys</u>		<u>Mustela frenata xanthogenys</u>
	San Mateo County, California, U.S. America		San Mateo County (37.25 N, 122.20 W), California, U.S.A.
	14.IX.1909		14.IX.1909
	M. B. Mitzmain		M. B. Mitzmain
			Cited: Nuttall (1916: 328).
N	2048	N	2048
		RML	110948
	<u>Ixodes hexagonus</u> var. <u>cookei</u> 1 ♀		1 ♀ <u>Ixodes sculptus</u>
	<u>Putorius xanthogenys</u>		<u>Mustela frenata xanthogenys</u>
	San Francisco, California, U.S. America		San Francisco (37.48 N, 122.24 W), California, U.S.A.
	1.IX.1909		1.IX.1909
	M. B. Mitzmain		M. B. Mitzmain
			Cited: Nuttall (1916: 328).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2049	N	2049
		RML	110949
	<u>Ixodes hexagonus</u> var. <u>cookei</u> 2 N's, 2 L		2 N, 1 L <u>Ixodes sculptus</u>
	<u>Putorius xanthogenys</u>		<u>Mustela frenata xanthogenys</u>
	San Mateo County, California, U.S. America		San Mateo County (37.25 N, 122.20 W), California, U.S.A.
	7.IX.1909		7.IX.1909
	M. B. Mitzmain		M. B. Mitzmain
			Cited: Nuttall (1916: 328).
N	2050	N	2050
		RML	110950
	<u>Aponomma trimaculatum</u> ♂'s, 2 ♀		3 ♂, 1 ♀ <u>Aponomma trimaculatum</u>
	Lizard (Monitor)		Lizard (Monitor)
	Alabang, Rizal, Philippine Islands		Alabang (14.25 N, 121.03 E), Republic of the Philippines
	23.IV.1912		23.IV.1912
	M. B. Mitzmain		M. B. Mitzmain
N	2051	N	2051
		RML	105779
	<u>Aponomma exornatum</u>		6 ♂ <u>Amblyomma helvolum</u> 2 ♀ <u>Aponomma fimbriatum</u> 8 N <u>Aponomma</u> sp.
	Lizard (Monitor)		Lizard (Monitor)
	Occidental Negros Province, Philippine Islands		Province of Negros Occidental (10.25 N, 123.00 E), Republic of the Philippines
	XII.1911		XII.1911
	M. B. Mitzmain		M. B. Mitzmain

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2052	N	2052 MISSING
	<u>Aponomma trimaculatum</u>		
	Lizard (Monitor)		
	La Carlota, Occidental Negros Province, Philippine Islands		
	11.XI.1911		
	M. B. Mitzmain		
N	2053	N	2053
		RML	110951
	<u>Dermacentor reticulatus</u> 1 ♀		1 ♀ <u>Dermacentor reticulatus</u>
	Dog		Dog
	Aberystwyth, Wales		Aberystwyth (52.25 N, 04.04 W), Wales
	3.III.1913		3.III.1913
	Rec'd from C. L. Walton, Esq., Zoological Department, University College of Wales, Aberystwyth Wales, 6 March 1913.		Rec'd from C. L. Walton, Esq., Zoological Department, University College of Wales, Aberystwyth, Wales,
N	2054	N	2054
		RML	110952
	<u>Ixodes hexagonus</u> var <u>cookei</u> ♂, L		1 ♀ <u>Ixodes sculptus</u>
	<u>Putorius xanthogenys</u>		<u>Mustela frenata xanthogenys</u>
	San Mateo County, California, U.S. America		San Mateo County (37.25 N, 122.20 W), California, U.S.A.
	20.IX.1909		20.IX.1909
	M. B. Mitzmain		M. B. Mitzmain
	(see also Nos. 2028-2039; 2047-2052)		Cited: Nuttall (1916: 328). Label in vial "larvae removed." Both the catalogue and vial label state the tick to be a ♂, it is a ♀.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2055

N 2055 OMITTED CATALOGUE NUMBER

N 2056

N 2056 MISSING

Haemaphysalis bispinosa var.
intermedia ♂'s, ♀'s

Wolf

4 miles W. of Koderma Station,
Chota Nagpur, India

9.VIII.1912

Major O. A. Smith

[Ex. Ind. Mus. $\frac{1524}{17}$]

N 2057

N 2057

RML 110953

Rhipicephalus pulchellus 3 ♂4 ♂ Rhipicephalus pulchellus

Cattle

Cattle

Montgomery District near
Kasauli, Punjab, India

Montgomery District near Kasauli,
Punjab, India (see below)

1911

1911

Capt. R. Markham Carter

Capt. R. Markham Carter

(Ex. Liverpool Sch. Trop. Med.
"153")

Locality data incorrect. R. pulchellus
is not found in India although these
are possibly imported cattle.

Ticks received from Dr. E. J. Marzinowsky, Hospital of Emperor Paul I,
Moscow, Russia, June, 1912:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2058	N	2058
		RML	110954
	<u>Dermacentor reticulatus</u> ♂, ♀		1 ♂ <u>Dermacentor reticulatus</u>
	No data		No data
	Moscow		Moscow (55.45 N, 37.35 E), U.S.S.R. Note in vial, "1 ♀ removed."
N	2059	N	2059
		RML	110955
	<u>Dermacentor reticulatus</u> L & eggs		+ 500 L <u>Dermacentor reticulatus</u>
	No data		No data
	Moscow, Russia		Moscow (55.45 N, 37.35 E), U.S.S.R. Cited: Edwards & Evans (1967: 595).
N	2060	N	2060
		RML	110956
	<u>Dermacentor reticulatus</u> 2 N		2 N <u>Dermacentor reticulatus</u>
	No data		No data
	Moscow, Russia		Moscow (55.45 N, 37.35 E), U.S.S.R.
N	2061	N	2061
		RML	110957
	<u>Boophilus australis</u> 3 ♀'s		3 ♀ <u>Boophilus annulatus</u>
	No data		No data
	Moscow, Russia		Moscow (55.45 N, 37.35 E), U.S.S.R.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2062	N	2062 MISSING
	<u>Ixodes ricinus</u> 3 ♀		
	No data		
	Moscow, Russia		
N	2063	N	2063
		RML	110958
	<u>Argas persicus</u>		2 ♂ <u>Argas persicus</u>
	No data		No data
	Moscow, Russia		Moscow (55.45 N, 37.35 E), U.S.S.R.
N	2064	N	2064
		RML	110959
	<u>Rhipicephalus rossicus</u>		1 ♂, 1 ♀ <u>Rhipicephalus rossicus</u>
	No data		No data
	Moscow, Russia		Moscow (55.45 N, 37.35 E), U.S.S.R.
N	2065	N	2065
		RML	110960
	<u>Ixodes oldi</u> n. sp. 7 ♀		6 ♀ <u>Ixodes oldi</u> Lectotype and paralectotypes
	Bush cat		Probably a West African species of <u>Genetta</u>
	Komatendu, Sierra Leone, West Africa		Komatendu, Sierra Leone (locality not verified)
	13.VIII.1912		13.VIII.1912
	J. J. Simpson		J. J. Simpson
	(Im. Bur. Ent. 604) co-types ?		Nuttall (1913b: 135), original description with 14 ♀ in the original collection. I believe that the catalogue record of 7 ♀ is correct. Arthur (1958: 47) and (1965: 138) discussed a "holotype ♀" deposited in the BM(NH), however Nuttall never selected a holotype. Lectotype designated: Keirans & Brewster (1981: 167). cited: Keirans et al. (1982:321).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2066	N	2066
		RML	110961
<u>Ixodes kemp</u> n.sp. 4 ♀		3 ♀ <u>Ixodes granulatus</u> Lectotype & paralectotypes of <u>I. kemp</u>	
<u>Sciurus erythraeus intermedius</u>		<u>Callosciurus erythraeus intermedius</u>	
Kobo (400 ft. elevation), India		Kobo (27.47 N, 95.23 E), India (122 m)	
24.III.1912		24.III.1912	
S. W. Kemp		S. W. kemp	
(Abor Expedition) [Indian Mus. Calcutta $\frac{1247}{17}$] Co-types!		Nuttall (1913b: 131), original description with 8 ♀ collected 29.III.1912. Cited: Sharif (1928: 237): Arthur (1957b: 684). Lectotype designated: Keirans & Brewster (1981: 167).	
N	2067	N	2067
		RML	110962
<u>Ixodes unicavatus</u> 1 larva		1 L <u>Ixodes unicavatus</u>	
<u>Phalacrocorax carbo</u>		<u>Phalacrocorax carbo</u>	
Anglesea, North Wales		Anglesea (53.17 N 04.22 W), Wales	
23.II.1886		23.II.1886	
Gift of W. F. Cooper who rec'd. it mounted on a slide from C. Oldham		Gift of W. F. Cooper who rec'd. it mounted on a slide from C. Oldham	
[G.H.F. Nuttall det.]		Cited: Nuttall (1916: 334); Thompson (1957: 215).	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2068	N	2068
		RML	110963
	<u>Ixodes eudyptidis</u> 1 ♀		1 ♀ <u>Ixodes eudyptidis</u>
	<u>Sterna antarctica</u>		<u>Sterna anaethetus antarctica</u>
	New Plymouth, New Zealand		New Plymouth (39.04 S, 174.05 E), New Zealand
	22.XI.1909		22.XI.1909
	W. W. Smith		W. W. Smith
	[Determined by the donor, Prof. Charles Chilton, Canterbury, N.Z., as <u>Ix. eudyptidis</u>]		Cited: Nuttall (1916: 327).
	Note: On 29.VI.1915 our sp. [<u>Ixodes neumanni</u>] condemned by us after we saw the type sent us from New Zealand.		
N	2069	N	2069
		RML	110964
	<u>Ixodes anatis</u> 1 ♀, 1 N co-types		1 ♀, 1 N <u>Ixodes anatis</u>
	Off?		Off?
	Ashburton, Canterbury, New Zealand		Canterbury (43.30 S, 171.30 E), Ashburton County, New Zealand
	1903		1903
	W. W. Smith		W. W. Smith
	[Rec'd. from Prof. C. Chilton, N.Z. VII.1912]		Chilton (1904: 201) original description; cited: Nuttall (1916: 317).
	Hypostome mounted on a slide, broken off by accident.		Slide present of nymphal hypostome

ORIGINAL DETERMINATIONCURRENT STATUS

N	2070	N	2070
		RML	110965
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		5 ♂, 14 ♀ <u>Rhipicephalus sanguineus</u>
	Off?		Off?
	Samoa Islands, Pacific Ocean		Samoa Islands (14.00 S, 171.00 W)
	15.I.1913		15.I.1913
	Dr. G. Fredricks		Dr. G. Fredricks
	(Gift of the Natural History Museum, Hamburg, Germany 17.III.1913)		
	Ticks received from L. C. Heath, Esq., Mwengwa, Mumbwa, N. Rhodesia, Central Africa 17.III.1913:-		
N	2071, a	N	2071 a
		RML	110966
	(2071) <u>Rhipicephalus evertsi</u> 2 ♂'s		(2071) MISSING
	(a) <u>Hyalomma aegyptium</u> 1 ♂, 2 ♀		(a) 1 ♂, 2 ♀ <u>Hyalomma truncatum</u>
	Eland		<u>Taurotragus oryx</u>
	Baluba, Broken Hill, N. Rhodesia		Baluba, Kabwe (14.27 S, 28.27 E), Zambia
	II.1913		II.1913
	L. C. Heath		L. C. Heath

ORIGINAL DETERMINATIONCURRENT STATUS

N	2072, a	N	2072, a
		RML	110967
	(2072) <u>Rhipicephalus supertritus</u> 1 ♂		(2072) 1 ♂ <u>Rhipicephalus supertritus</u>
	(a) <u>Rhipicephalus sculptus</u> ♂'s, ♀'s		(a) 5 ♂, 4 ♀ <u>Rhipicephalus sculptus</u>
	Sable Antelope		<u>Hippotragus niger</u>
	Baluba, Broken Hill, N. Rhodesia		Baluba, Kabwe (14.27 S, 28.27 E), Zambia
	II.1913		II.1913
	L. C. Heath		L. C. Heath
			(2072a) cited by Santos Dias (1958: 479) who stated that this collection consisted of 2 ♂, 2 ♀ <u>R. sculptus</u>
Ticks received from Dr. W. L. Thompson, Mount Silinda, Melssetter, S. Rhodesia, S. Africa, 17 March, 1913:-			
N	2073, a	N	2073, a
		RML	110968
	(2073) <u>Rhipicephalus</u> <u>appendiculatus</u> ♂'s, ♀'s		15 ♂, 11 ♀ <u>Rhipicephalus appendiculatus</u>
	(a) <u>Rhipicephalus simus</u> 1 ♂		(a) 1 ♂ <u>Rhipicephalus simus</u>
	Cattle		Cattle
	Mount Silinda, S. Rhodesia		Mount Selinda (20.27 S, 32.43 E), Zimbabwe
	XII.1912		XII.1912
	Dr. W. L. Thompson		Dr. W. L. Thompson

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2074	N	2074
		RML	110969
	<u>Ornithodoros moubata</u>		3 ♂, 11 ♀, 2 N <u>Ornithodoros moubata</u>
	Native huts		Native huts
	Mount Silinda, S. Rhodesia		Mount Selinda (20.27 S, 32.43 E), Zimbabwe
	I.1913		I.1913
	Dr. W. L. Thompson		Seven of the 11 ♀ in this collection fit within the taxonomic limits of <u>O. moubata porcinus</u> , the 4 remaining ♀ are <u>O. m. moubata</u> . The two groups have been separated but retained within one vial.
N	2075	N	2075
		RML	110970
	<u>Rhipicephalus appendiculatus</u> ♂, ♀'s		1 ♂, 11 ♀ <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Mount Silinda, S. Rhodesia		Mount Selinda (20.27 S, 32.43 E), Zimbabwe
	11.II.1913		11.II.1913
	Dr. W. L. Thompson		Dr. W. L. Thompson
N	2076	N	2076
		RML	110971
	<u>Rhipicephalus follis</u> ♂'s, ♀'s (♀ new to science)		5 ♂, 2 ♀ <u>Rhipicephalus jeanneli</u>
	Oxen		Oxen
	Kijabe, British East Africa		Kijabe (00.56 S, 36.34 E), Kenya
	12.II.1912		12.II.1912
	R. Edmondson		R. Edmondson
	(E.R.C. No. 504)		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2077	N	2077
		RML	110972
	<u>Haemaphysalis bispinosa</u> var. <u>intermedia</u> ♂'s, ♀'s		2 ♂, 2 ♀ <u>Haemaphysalis paraturturis</u> Paratypes
	Wolf		Probably <u>Canis lupus pallipes</u>
	5 miles west of Koderma Station, Chota Nagpur, India		5 miles west of Koderma Station, Chota Nagpur (22.13 N, 88.54 E), India
	9.VIII.1912		9.VIII.1912
	Major O. A. Smith		Major O. A. Smith
	[Indian Mus. $\frac{1524}{17}$]		Hoogstraal et al (1963: 686) original description. Cited as <u>H.</u> <u>bispinosa intermedia</u> by Nuttall & Warburton (1915: 435).
N	2078	N	2078
		RML	110973
	<u>Boophilus annulatus</u> ♀'s		6 ♀ <u>Boophilus annulatus</u>
	Cattle		Cattle
	Auburn, Alabama, U.S. America		Auburn (32.36 N, 85.29 W), Alabama, U.S.A.
	13.III.1913		13.III.1913
	Professor C. A. Cary		Professor C. A. Cary
N	2079	N	2079
		RML	110974
	<u>Rhipicephalus sanguineus</u> ♂, ♀		1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Dog (Toy terrier)		Dog
	Brymbo, near Wrexham, North Wales		Brymbo (53.04 N, 03.04 W), Wales
	22.III.1913		22.III.1913
	W. J. Fletcher, M.R.C.V.S.		W. J. Fletcher, M.R.C.V.S.

Two tubes of ticks received from Dr. George V. Perez, Puerto Orotava, Tenerife, Canary Islands, 26.III.1913:-

N 2080 N 2080 MISSING

Haemaphysalis punctata ♂'s, ♀'s

Goat

Puerto Orotava, Tenerife,
Canary Islands

II.1913

Dr. G. V. Perez

Given to D. S. Machagan 14.X.1938

N 2081 N 2081

RML 110975

Haemaphysalis punctata ♀'s

6 ♀ Haemaphysalis punctata

Goats

Goats

Puerto Orotava, Tenerife,
Canary Islands

Puerto Orotava, Tenerife (28.19 N,
16.34 W), Canary Islands

II.1913

II.1913

Dr. G. V. Perez

Dr. G. V. Perez

Four tubes of ticks received from Dr. Jesus E. Monjarás, Exequiel Montes 15, Mexico, Central America, 24.III.1913:-

N 2082 N 2082 MISSING

Argas persicus

Fowls

Mexico City, Mexico, Central
America

I.1913

1 adult, 1 N to Prof. Dr. Dahl,
Berlin Museum VII.1914.
1 adult, 1 N to Prof. Dr. Schenkling,
Deutsches Entomol. Mus. VII.1914.
1 adult, 1 N to Prof. Dr. Gestro,
Museo Civico de Storia Nat., Genova
VII.1914.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2083

Dermacentor nigrolineatus ♀'s

Horse

Mexico City, Mexico, Central America

I.1913

[C. W. det. 1913]

N 2084

Boophilus annulatus ♀'s

Off?

Agua Prieta, Sonora, Mexico, Central America

N 2085, a, b

(2085) Boophilus annulatus ♀'s
 (a) Ornithodoros megnini
 (b) Dermacentor nitens 1 ♀

Cattle, horses, & sheep

District of Federal Mexico, Mexico, Central America

I.1913

N 2083

RML 110976

1 ♂, 4 ♀ Dermacentor albipictus

Horse

Mexico City (19.24 N, 99.09 W), Mexico

I.1913

N 2084

RML 110977

1 ♂, 9 ♀ Boophilus annulatus

Off?

Argua Prieta (31.18 N, 109.34 W), Sonora, Mexico

I.1913

Date on vial label

N 2085, b

RML 110978

(2085) 16 ♀ Boophilus microplus
 (a) MISSING
 (b) 1 ♀ Anocentor nitens

Cattle, horses, & sheep

Distrito Federal (19.15 N, 99.10 W), Mexico

I.1913

Date on vial label
 Vial label for 2085 c lists host as horse.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2086

Amblyomma dissimile 1 ♂Bushmaster (Lachesis mutus)

Trinidad, West Indies

7.III.1913

(Z. S. "37")

N 2086

RML 110979

1 ♂ Amblyomma dissimileLachesis mutus

Trinidad

7.III.1913

Cited: Robinson (1926: 167).

N 2087

Ixodes marxi 3 ♀'s

Raccoon

Montgomery Co., Alabama, U.S.A.

III.1913

Sent by Professor C. A. Cary,
State Veterinarian, Auburn, Ala.,
U.S. America 8.IV.1913

N 2087

RML 110980

3 ♀ Ixodes marxiProcyon lotorMontgomery Co. (32.23 N, 86.18 W),
Alabama, U.S.A.

III.1913

Sent by Professor C. A. Cary,
State Veterinarian, Auburn, Ala.,
U.S. America 8.IV.1913.Cited: Nuttall (1916: 329)
Cooley & Kohls (1945: 129) stated
that Nuttall & Warburton (1911)
listed I. marxi from raccoon in
Montgomery County, Alabama. Because
the collection date was 1913, Cooley
& Kohls must have meant to cite the
Nuttall (1916) reference.

Two tubes of ticks received from Dr. A.F.G. Kerr, Chiengmai, Siam,
Farther India, 8 April, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2088	N	2088
		RML	110981
	<u>Amblyomma</u> sp. N's		2 N <u>Amblyomma</u> sp.
	Off "self" (human being)		<u>Homo sapiens</u>
	Coi Chieng Dao, N. Siam		Doi Chieng Dao, Thailand (locality not verified)
	28.I.1913		28.I.1913
	Dr. A. F. G. Kerr		Dr. A. F. G. Kerr
N	2089	N	2089
		RML	110982
	<u>Haemaphysalis wellingtoni</u> ♂'s		3 ♂ <u>Haemaphysalis wellingtoni</u>
	Turkey		Turkey
	Chiengmai, Siam		Chiang Mai (18.47 N, 98.59 E), Thailand
	10.XII.1912		10.XII.1912
	Mrs. Harris		Mrs. Harris
	1 ♂ to Dr. de Blieck, Java 22.I.1915		Nuttall & Warburton (1915; 482) listed 7 ♂ in the original collection.

Ticks received back from the Imperial Bureau of Entomology (per Mr. G.A.K. Marshall), London S.W., 8 April, 1913, ex Report No. 27 (Nos. 627-661a):-

N	2090	N	2090
		RML	110983
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		3 ♂, 1 ♀ <u>Hyalomma truncatum</u>
	Cattle (suspected to be infected with East Coast fever)		Cattle (suspected to be infected with East Coast fever)
	Marimba District, Nyasaland		Marimba District, Malawi (locality not verified)
	VIII.1912		VIII.1912
	Dr. J. C. Morgan		Dr. J. C. Morgan
	("627")		
	1 ♂, 1 ♀ to R. M. Mettam, Weybridge IV.1931.		
	1 ♂, 1 ♀ to H. S. Purchase IV.1931		
N	2091	N	2091
		RML	110984
	<u>Boophilus decoloratus</u> ♀'s		4 ♀ <u>Boophilus decoloratus</u>
	Cattle (suspected to be infected with East Coast fever)		Cattle (suspected to be infected with East Coast fever)
	Marimba District, Nyasaland		Marimba District, Malawi (locality not verified)
	VIII.1912		VIII.1912
	Dr. J. C. Morgan		Dr. J. C. Morgan
	("627a")		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2092	N	2092
		RML	110985
	<u>Rhipicephalus neavei</u> 1 ♀		1 N <u>Rhipicephalus</u> sp.
	Cattle (suspected to be infected with East Coast fever)		Cattle (suspected to be infected with East Coast fever)
	Marimba District, Nyasaland		Marimba District, Malawi (locality not verified)
	VIII.1912		VIII.1912
	Dr. J. C. Morgan		Dr. J. C. Morgan
	("627b")		
N	2093	N	2093 MISSING
	<u>Rhipicephalus evertsi</u> N's		
	Reed-buck		
	Muona, Ruw District, Nyasaland		
	17.X.1912		
	Dr. J.E.S. Old		
	("645")		
N	2094	N	2094
		RML	110986
	<u>Amblyomma variegatum</u> N's		8 N <u>Amblyomma variegatum</u>
	Water-buck		<u>Kobus ellipsiprymnus</u>
	Masengari, Ruw District, Nyasaland		Perhaps Masenjere (16.20 S, 35.06 E), Malawi
	23.IX.1912		23.IX.1912
	Dr. J.E.S. Old		Dr. J.E.S. Old
	("652")		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2095	N	2095
		RML	110987
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		5 ♂, 12 ♀ <u>Rhipicephalus evertsi</u>
	Reed-buck		<u>Redunca</u> sp.
	Nyasaland		Malawi
	21.IX.1912		21.IX.1912
	Dr. J.E.S. Old		Dr. J.E.S. Old
	("655")		
N	2096	N	2096 MISSING
	<u>Rhipicephalus evertsi</u> N's		
	Reed-buck		
	Masengari, Ruo District, Nyasaland		
	IX.1912		
	Dr. J.E.S. Old		
	("656")		
N	2097	N	2097 MISSING
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		
	Reed-buck		
	Masengari, Ruo District, Nyasaland		
	23.IX.1912		
	Dr. J.E.S. Old		
	("657")		
	2 ♂, 2 ♀ to Prof. E. Brumpt, Paris		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2098
Rhipicephalus sanguineus ♂'s, ♀'s
 Dog (bull-terrier bitch)
 Bundajuma, N Sherbrs District,
 Sierra Leone, West Africa
 15.III.1913
 Rec'd from Major E.D.H.
 Fairtlough, Esq., C.M.G.,
 D.S.O. 21.IV.1913

Two tubes of ticks received from Dr. T. L. Bancroft, Eidsvold, Queensland,
 Australia, 21 April, 1913:-

N 2099
Boophilus australis ♀'s
 Cattle
 Burnett District, Queensland
 III.1913

N 2099
 RML 110988
 3 ♂, 8 ♀, 1 N Boophilus microplus
 Cattle
 Burnett District, Queensland,
 Australia
 III.1913

Thomas Lane Bancroft (1860-1933) son
 of Dr. Joseph Bancroft who confirmed
 in 1876 microfilaria of Wuchereria
bancrofti in human blood. T. L.
 Bancroft discovered the mode of trans-
 mission of W. bancrofti from mosquito
 to man. He was the father of all
 research on dengue fever.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2100

N 2100

RML 110989

Haemaphysalis bancrofti 2 ♂, 5 ♀
TYPES2 ♂, 5 ♀ Haemaphysalis bancrofti
Lectotype and ParalectotypesMacropus dorsalisMacropus dorsalis

Burnett District, Queensland

Burnett District, Queensland
Australia

III.1913

III.1913

Nuttall & Warburton (1915: 487)
original description. Roberts (1963:
62) redescribed ♂, ♀ and N. Lectotype
designated: Keirans & Brewster (1981:
159).

130

Two tubes of ticks received from Dr. T. L. Bancroft, Eidsvold, Queensland, Australia, 21 April, 1913.

2099. Bos. australis ^{Fuller} ♀, off cattle; Burnett District, Queensland, III. 1913.

2100. Haem. bancrofti ^{N.H. 1914 25} ♂ off Macropus dorsalis, Burnett District, Queensland, III. 1913. Tippes!

Four tubes of ticks received from Dr. Oscar Dee, (The Pahang Consolidated Company, Ltd.), Sungai Lembing, Kuantan, Federated Malay States, 21 April, 1913.

2102. Bos. australis ^{Fuller, 1897} ♀, off bullock, Sungai Lembing, Kuantan, Pahang, II. 1913.

2103. Amb. testudinarius ^{Koch, 1844} 3 ♂ 2 ♀, off water buffalo, Sungai Lembing, Kuantan, Pahang, I. II. 1913.

2104. Haem. cornigera ^{Im., 1897} ♂. } off wild pig, or tiger (shot
2105. Haem. proxima ^{Harb. & Nutt., 1909} } in jungle), Kuantan,
2106. Haem. lylei ^{Supina, 1897} ♂, 1 ♀. } Pahang, I. 1913.

[N.B. Nos. 2104, 2105 & 2106 were found mixed owing to tube breaking in transit.]

2107. Orr. calaje 3 ♂ 2 ♀, found in camp-bed (in folds of canvas), on the Rio Condoto, tributary of the San Juan, Choco, Republic of Colombia, S. America, IX. 1912, having bitten the occupant and collector severely. Presented by the collector (Dr. Samuel Shephard) in person, 23. IV. 1913.

Figure 2.--Sample page from volume 2 of the Nuttall tick catalogue.

Four tubes of ticks received from Dr. Oscar Pou, (The Pahang Consolidated Company, Ltd.), Sungei Lembing, Kuantan, Federated Malay States, 21 April, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2101	N	2101 OMITTED CATALOGUE NUMBER
N	2102	N	2102
		RML	110990
	<u>Boophilus australis</u> ♀'s		17 ♀ <u>Boophilus microplus</u>
	Bullock		Bullock
	Sungei Lembing Kuantan, Pahang		Sungai Lembing (03.55 N, 103.02 E) Pahang, Malaysia
	II.1913		II.1913
N	2103	N	2103
		RML	110991
	<u>Amblyomma testudinarium</u> 3 ♂, 2 ♀		3 ♂, 2 ♀ <u>Amblyomma testudinarium</u>
	Water buffalo		<u>Bubalus bubalis</u>
	Sungei Lembing, Kuantan, Pahang		Sungai Lembing (03.55 N, 103.02 E), Pahang, Malaysia
	1.II.1913		1.II.1913
			Cited: Robinson (1926: 257).
N	2104	N	2104
		RML	110992
	<u>Haemaphysalis cornigera</u> ♂'s		4 ♂ <u>Haemaphysalis cornigera</u>
	Wild pig or tiger (shot in jungle)		Wild pig or tiger (shot in jungle)
	Kuantan, Pahang		Kuantan (03.48 N, 103.20 E), Pahang, Malaysia
	I.1913		I.1913
			Dr. H. F. Conyngham
	[N.B. Nos. 2104, 2105 & 2106 were found mixed owing to tube breaking in transit]		Collector's name taken from vial label Cited: Nuttall & Warburton (1915: 503).

ORIGINAL DETERMINATIONCURRENT STATUS

N

2105

N

2105

RML

110993

Haemaphysalis proxima 2 ♀'s3 ♀ Haemaphysalis cornigera

Wild pig or tiger (shot in jungle)

Wild pig or tiger (shot in jungle)

Kuantan, Pahang

Kuantan (03.48 N, 103.20 E), Pahang,
Malaysia

I.1913

I.1913

[N.B. Nos. 2104, 2105 & 2106 were
found mixed owing to tube
breaking in transit]

Cited: Nuttall & Warburton (1915: 503).

N

2106

N

2106

RML

22298

Haemaphysalis hystricis6 ♂, 1 ♀ Haemaphysalis semermis1 ♀ Haemaphysalis calvus1 ♀ Haemaphysalis longicornis

Wild pig or tiger (shot in jungle)

Wild pig or tiger (shot in jungle)

Kuantan, Pahang

Kuantan (03.48 N, 103.20 E), Pahang,
Malaysia

I.1913

I.1913

[N.B. Nos. 2104, 2105 & 2106 were
found mixed owing to tube
breaking in transit]The H. semermis collection cited by
Hoogstraal et al (1965b: 435).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2107

N 2107

RML 110994

Ornithodoros talaje 3 ♂, 2 ♀, 2 N3 ♂, 1 ♀, 2 N Ornithodoros talaje

Camp bed (in folds of canvas)

Camp bed (in folds of canvas)

Rio Condoto, tributary of the
San Juan, Choco, Republic of
Colombia, S. AmericaRio Condoto, tributary of the San Juan,
Departamento del Choco (06.00 N,
77.00 W), Colombia

IX.1912

IX.1912

Dr. Samuel Shephard

Dr. Samuel Shephard

Having bitten the occupant and
collector severely, presented
by the collector in person
23.IV.1913.

Ticks sent to me by Geheimrath W. Dönitz of Berlin 30.V.1911 (see letter) being his type material of the species named. Unless they are reclaimed by his representatives in the future I propose that they be retained in our collection where they will be more useful than elsewhere. I think this would have been in accordance with Dönitz's wishes. He died 12.III.1912. (See my "In Memoriam" in Parasitology vol. V No. 4. G.H.F.N. 24.IV.1913:-)

N 2108

N 2108

RML 110995

Rhipicephalus glyphis 1 ♂
TYPE (pinned)1 ♂ Rhipicephalus lunulatusWasserschweinWasserschwein

Lake Tanganyika

Lake Tanganyika (06.00 S, 29.30 E),
Tanzania(There must be a second ♂ in
Berlin of this lot.)

Dönitz (1910b; 278) original
description. Warburton (1912: 19)
synonymized R. glyphis with R.
lunulatus, the latter considered by
Warburton to be a subspecies of
R. simus.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2109

Rhipicephalus kochi 1 ♂ (on slide) unique type

Cattle

Saadani, German East Africa

(Unfortunately charred somewhat by Dönitz in photographing it, but still shows spec. characters) [mounted on a slide, dry, in cell]

N 2109

RML 110996

1 ♂ Rhipicephalus kochi

Cattle

Sadani (06.03 S, 38.47 E), Tanzania

Dönitz (1905: 106) original description. Cited: Clifford et al (1983: 77,78).

N 2110

Rhipicephalus follis 2 ♂

Off undet. host

German S.W. Africa

Knuth

(In his letter Dö. states they were formerly pinned. The white border to festoons has disappeared in alcohol but will doubtless reappear if specimens are again dried.) He described the species from these 2 types.

N 2110

RML 111463

2 ♂ Rhipicephalus follis (Syntypes)
1 ♂ Rhipicephalus follis (probably not a Syntype)

Off undet. host

Namibia

Knuth

Dönitz (1910a: 481) original description. The ♂ without the pinhole may have been added inadvertently by an investigator comparing his specimen with the types.

N 2111

N 2111 OMITTED CATALOGUE NUMBER

ORIGINAL DETERMINATIONCURRENT STATUS

N 2112

N 2112

RML 110997

Amblyomma dissimile ♂'s, ♀'s,
N's, L18 ♂, 4 ♀, 6 N, 1 L Amblyomma dissimile

Iguana

Iguana

Trinidad, Brit. West Indies

Trinidad

Rec'd 29.IV.1913

Rec'd 29.IV.1913

Rec'd from Prof. P. Carmody

Rec'd from Prof. P. Carmody

[2 ♂ mounted in cells with
Amblyomma spp.]

Cited: Robinson (1926: 167).

1 ♂, 1 ♀ to Dr. S. Hadwen, Brit.

Columbia, Canada 10.X.1913.

1 ♂, 1 ♀ to Dr. E. Pavlovsky,

Leningrad 9.X.1925.

Ticks received from Dr. T. L. Bancroft, Eidsvold, Queensland, Australia,
5 May, 1913:-

N 2113

N 2113 MISSING

Aponomma gervaisi var lucasi ♂'sVaranus gouldii

Burnett River, Queensland

III.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N

2114

N

2114

RML

110998

Haemaphysalis bancrofti 1 ♀, 1 N
COTYPES

1 ♀, 1 N Haemaphysalis bancrofti
Paralectotypes

"Crawling on trousers"

"Crawling on trousers"

Brigaton Scrub, Burnett,
Queensland

Brigaton Scrub, Burnett, Queensland,
Australia (locality not verified)

III.1913

III.1913

Dr. T. L. Bancroft

[tarsus 4 of N in balsam on a
slide]

Slide present
Nuttall & Warburton (1915: 487)
original description. Paralectotypes
designated: Keirans & Brewster (1981:
159).

N

2115

N

2115

RML

110999

Haemaphysalis bancrofti 1 ♂
COTYPE

1 ♂ Haemaphysalis bancrofti
Paralectotype

Kanderoo (Macropus giganteus)

Macropus giganteus

Burnett District, Queensland

Burnett District, Queensland,
Australia (locality not verified)

III.1913

III.1913

Dr. T. L. Bancroft

Nuttall & Warburton (1915: 487)
original description. Paralectotype
designated: Keirans & Brewster (1981:
159).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2116

N 2116

RML 111000

Haemaphysalis papuana 1 ♂1 ♂ Haemaphysalis papuana

Pariah dog

Pariah dog

"Kampong, China" near Kota Bharu, Kelantan, Fed. Malay States

Probably Kampong China (04.11 N, 100.41 E) near Kota Bharu (04.24 N, 101.05 E), Malaysia

17.III.1913

17.III.1913

Rec'd from Dr. John D. Gimlette
5.V.1913Rec'd from Dr. John D. Gimlette
5.V.1913

Cited: Nuttall & Warburton (1915: 405), fig. 339; Trapido et al (1964a; 173, 178).

N 2117, a

N 2117, a

RML 111001

(2117) Dermacentor reticulatus
1 ♂(2117) 1 ♂ Dermacentor niveus(a) Hyalomma aegyptium ♂'s, ♀'s(a) 3 ♂, 6 ♀ Hyalomma marginatumTamarix gallicaTamarix gallica

Pina, Zaragoza, Spain

Pina de Ebro (41.29 N, 00.32 W),
Provincia de Zaragoza, Spain

IV.1913

IV.1913

Rec'd from Dr. Longin Navas,
28.IV.1913Rec'd from Dr. Longin Navas,
28.IV.1913Note:- Tamarix gallica is often
used as a hedge - a shrub or small
tree.

Three tubes of ticks received from Dr. H. F. Conyngham, Sandakan, British North Borneo, 7 May, 1913:-

ORIGINAL DETERMINATION

N 2118

Haemaphysalis cornigera ♂'s, ♀'s

Sambar deer

Bode River, Sandakan Bay

IV.1913

1 ♂, 1 ♀ to Dr. de Blieck, Java
22.I.1915

N 2119, a, b

(2119) Boophilus australis
♂'s, ♀'s

(a) Amblyomma testudinarium 2 ♂'s
(b) Haemaphysalis cornigera ♂, ♀

Water buffalo

Labuk River, N. B. Borneo

10.XII.1912

CURRENT STATUS

N 2118

RML 22295, 69994

23 ♂, 7 ♀ Haemaphysalis cornigera
(RML 22295)
1 ♂ Haemaphysalis borneata (RML 69994)
Holotype

Cervus unicolor brookei

Bode River (05.41 N, 117.57 E),
Sandakan Harbor, Sabah, Malaysia

IV.1913

Dr. H. E. Conyngham

Collectors name with middle initial E. from vial label. Nuttall's catalogue, his book containing names of donor's to his tick collection, and Nuttall & Warburton (1915: 503) all list it as F. Hoogstraal (1971: 1096) original description of H. borneata.

N 2119, a, b

RML 111002

(2119) 7 ♂, 24 ♀ Boophilus microplus

(a) 2 ♂ Amblyomma testudinarium
(b) 1 ♂, 1 ♀ Haemaphysalis cornigera

Bubalus bubalis

Labuk River (05.55 N, 117.37 E),
Sabah, Malaysia

10.XII.1912

Dr. H. F. Conyngham

Cited: Nuttall & Warburton (1915: 503); Robinson (1926: 257).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2120, a

N 2120, a

RML 111003

(2120) Haemaphysalis proxima 2 ♀
 (a) Haemaphysalis calvus 3 ♂, 1 ♀
 TYPE

(2120) 2 ♀ Haemaphysalis cornigera
 (a) 3 ♂, 1 ♀ Haemaphysalis calvus
 Lectotype & paralectotype

Buffaloes

Buffaloes

Sekong River, Sandakan

Sekong River, Sandakan (05.50 N,
118.05 E), Sabah, Malaysia

IV.1913

19.IV.1913

Dr. H. F. Conyngham

Nuttall & Warburton (1915: 503) original
 description of H. calvus. The vulva of
 2120a has been removed and mounted on a
 slide. 2120 cited: Nuttall & Warburton
 (1915: 503); Hoogstraal & Wassef (1981:
 119, 120). Lectotype designated:
 Keirans & Brewster (1981: 160).

N 2121

N 2121

RML 111004

Haemaphysalis sp. nymphs14 N Haemaphysalis sp.Jungle fowl (Gallus gallus)Gallus gallus

Yambung (1100 ft.), India

Yambung, India (335 m) (locality not
verified).

II.1912

II.1912

S. W. Kemp

S. W. Kemp

(Abor Expedition)
 [Indian Museum 1245]
 17

ORIGINAL DETERMINATIONCURRENT STATUS

N 2122

Haemaphysalis sp. nymphs

Off grass sweepings

Upper Rotung (2000 ft.) India

II.1912

S. W. Kemp

(Abor Expedition)

[Indian Museum $\frac{1246}{17}$]

N 2122

RML 111005

3 N Haemaphysalis sp.

Off grass sweepings

Perhaps Rotung (28.08 N, 95.12 E),
India (610 m)

II.1912

S. W. Kemp

Collection of ticks received from Dr. J. Y. Wood, Medical Officer, Kaballa,
Koinadugu District, Sierra Leone Protectorate, West Africa, 9 April, 1913:-

N 2123

N 2123 MISSING

Boophilus decoloratus ♂'s, ♀'s

Dog

Mabonto, Sierra Leone

14.II.1913

16.IV.1913 sent back specimens of
"2a, 10, 11a, 20a, 21a"

N.B. All Boophilus of this
collection seem to unite
decoloratus and australis.

Hypostomes are mostly 4/4, but
the projection on article 1 of the
palps is present & the ♂ anal
plates are distinctly of the
decoloratus type. See especially
N 2137.

C.W. & G.H.F.N.

"1" [these are Wood's numbers.-
J.E.K.]

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2124, a	N	2124a
		RML	111006
	(2124) <u>Boophilus decoloratus</u> ♂, ♀'s		(2124) MISSING
	(a) <u>Rhipicephalus simus</u> ♀		(a) 1 ♀ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Mabonto, Sierra Leone		Either Mabonto (08.38 N, 12.37 W) or (08.52 N, 11.49 W), Sierra Leone
	14.II.1913		14.II.1913
	"2"		J. Y. Wood
			Dr. Wood's initials are given both as J. Y. and J. J.
N	2125	N	2125 MISSING
	<u>Boophilus decoloratus</u> ♂, N's		
	Dog		
	Dean Securella, Sierra Leone		
	19.II.1913		
	"3"		
N	2126	N	2126 MISSING
	<u>Boophilus decoloratus</u> ♂'s, ♀'s, N's		
	Sheep		
	Securella, Sierra Leone		
	22.I.1913		
	"4"		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2127	N	2127	MISSING
	<u>Boophilus decoloratus</u> N's			
	Cows			
	Foniba, Sierra Leone			
	24.I.1913			
	"5"			
N	2128	N	2128	MISSING
	<u>Boophilus decoloratus</u> ♂'s, ♀'s & N's			
	Goats			
	Farandugo, Sierra Leone			
	18.I.1913			
	"6"			
N	2129	N	2129	
		RML	111007	
	<u>Rhipicephalus sanguineus</u> ♂'s & ♀'s		1 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>	
	Dog		Dog	
	Koinadugu, Sierra Leone		Koinadugu (09.32 N, 11.22 W), Sierra Leone	
	17.I.1913		17.I.1913	
			J. Y. Wood	
	"7"			

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2130	N	2130 MISSING
	<u>Boophilus decoloratus</u> ♂, ♀, N		
	Dog		
	Kamadugu, Sierra Leone		
	21.I.1913		
	"8"		
N	2131	N	2131
		RML	111008
	<u>Boophilus decoloratus</u> ♀'s, N's		6 ♀, 3 N <u>Boophilus geigy</u>
	Sheep		Sheep
	Kondambia, Sierra Leone		Either Kondambia (09.09 N, 11.13 W) or (09.23 N, 11.34 W), Sierra Leone
	24.I.1913		24.I.1913
			J. Y. Wood
	"9"		
N	2132	N	2132 MISSING
	<u>Boophilus decoloratus</u> ♂'s, ♀'s, N's		
	Cattle		
	Waia, Sierra Leone		
	8.II.1913		
	"10"		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2133, a	N	2133a
		RML	111009
	(2133) <u>Boophilus decoloratus</u> ♂'s, ♀'s		(2133) MISSING
	(a) <u>Amblyomma</u> sp. N		(a) 4 N <u>Amblyomma variegatum</u>
	Goats		Goats
	Kondembia, Sierra Leone		Either Kondembia (09.09 N, 11.13 W) or (09.23 N, 11.34 W), Sierra Leone
	24.I.1913		24.I.1913
	"11"		Dr. J. Y. Wood
N	2134	N	2134, a
		RML	111010
	<u>Rhipicephalus sanguineus</u> ♀		(2134) 2 ♀ <u>Rhipicephalus sanguineus</u> (a) 1 N <u>Amblyomma variegatum</u>
	Dogs		Dogs
	Kamadugu, Sierra Leone		Kamadugu (08.48 N, 11.41 W), Sierra Leone
	21.I.1913		21.I.1913
	"12"		N 2134a was not entered in the catalogue
N	2135	N	2135
		RML	111011
	<u>Amblyomma</u> sp. N		1 N <u>Amblyomma variegatum</u>
	Goat		Goat
	Kamadugu, Sierra Leone		Kamadugu (08.48 N, 11.41 W) Sierra Leone
	21.I.1913		21.I.1913
	"13"		Dr. J. Y. Wood

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2136, a	N	2136, a
		RML	111012
	(2136) <u>Boophilus decoloratus</u> ♀ (a) <u>Amblyomma</u> sp. N		(2136) 7 ♀ <u>Boophilus geigy</u> (a) 1 N <u>Amblyomma variegatum</u>
	Goat		Goat
	Dean Securella, Sierra Leone		Dean Securella, Sierra Leone (locality not verified)
	22.I.1913		22.I.1913
	"14"		Dr. J. Y. Wood
N	2137	N	2137 MISSING
	<u>Boophilus decoloratus</u> ♂'s, ♀'s, N's		
	Cattle		
	Kumala, Sierra Leone		
	21.I.1913		
	"15"		
N	2138	N	2138
		RML	111013
	<u>Boophilus decoloratus</u>		2 ♂, 118 ♀ <u>Boophilus geigy</u> 4 N <u>Amblyomma variegatum</u>
	Cattle		Cattle
	Koinadugu, Sierra Leone		Koinadugu (09.32 N, 11.22 W), Sierra Leone
	17.I.1913		17.I.1913
	"16"		J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N 2139

N 2139

RML 111014

Boophilus decoloratus9 ♂, 112 ♀ Boophilus geigy

Cow

Cow

Kumala, Sierra Leone

Kumala (09.04 N, 11.24 W), Sierra Leone

21.II.1913

21.II.1913

J. Y. Wood

"17"

N 2140

N 2140

RML 111015

Boophilus decoloratus9 ♀ Boophilus geigy2 N Amblyomma variegatum

Cows

Cows

Dean Securella, Sierra Leone

Dean Securella, Sierra Leone
(locality not verified)

22.I.1913

22.I.1913

"18"

N 2141

N 2141 MISSING

Boophilus decoloratus

Cows

Alakalia, Sierra Leone

24.II.1913

"19"

ORIGINAL DETERMINATIONCURRENT STATUS

N	2142, a	N	2142a
		RML	111016
	(2142) <u>Boophilus decoloratus</u>		(2142) MISSING
	(a) <u>Amblyomma variegatum</u> ♂, ♀		(a) 1 N <u>Amblyomma variegatum</u>
	Cattle		Cattle
	Farandugu, Sierra Leone		Farandugu (09.29 N, 11.27 W), Sierra Leone
	18.I.1913		18.I.1913
	"20"		Dr. J. Y. Wood
N	2143, a	N	2143a
		RML	111017
	(2143) <u>Boophilus decoloratus</u>		(2143) MISSING
	(a) <u>Rhipicephalus falcatus</u> ♂, ♀		(a) 2 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Kondambia, Sierra Leone		Either Kondambia (09.09 N, 11.13 W) or (09.23 N, 11.34 W) Sierra Leone
	24.I.1913		24.I.1913
	"21"		J. Y. Wood
N	2144, a, b	N	2144, a, b
		RML	111018
	(2144) <u>Boophilus decoloratus</u>		(2144) 2 ♀ <u>Boophilus geigy</u>
	(a) <u>Amblyomma</u> sp. N		(a) 2 N <u>Amblyomma variegatum</u>
	(b) <u>Rhipicephalus falcatus</u> ♀'s		(b) 2 ♀ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Kondambia, Sierra Leone		Either Kondambia (09.09 N, 11.13 W) or (09.23 N, 11.34 W), Sierra Leone
	24.I.1913		24.I.1913
	"22"		Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2145	N	2145
		RML	111019
	<u>Boophilus decoloratus</u>		21 ♀ <u>Boophilus geigy</u>
	Cows		Cows
	Alakalia, Sierra Leone		Alidalia (09.10 N, 11.24 W), Sierra Leone
	24.II.1913		22.II.1913
	"23"		
N	2146, a	N	2146a
		RML	111020
	(2146) <u>Boophilus decoloratus</u>		(2146) MISSING
	(a) <u>Amblyomma</u> sp. N		(a) 1 N <u>Amblyomma variegatum</u>
	Cows		Cows
	Kamadugu, Sierra Leone		Kamadugu (08.48 N, 11.41 W), Sierra Leone
	21.I.1913		21.I.1913
	"24"		
N	2147	N	2147
		RML	111021
	<u>Boophilus</u> sp.		4 ♂, 21 ♀ <u>Boophilus geigy</u>
	Sheep		Sheep
	Kumala, Sierra Leone		Kumala (09.04 N, 11.24 W), Sierra Leone
	21.II.1913		21.II.1913
			J. Y. Wood
	"25"		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2148

Boophilus sp.

Cattle

Koinadugu, Sierra Leone

17.I.1913

"26"

N 2148

RML 111022

1 ♂, 35 ♀ Boophilus geigy

Cattle

Koinadugu (09.32 N, 11.22 W), Sierra Leone

17.I.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2149

Rhipicephalus appendiculatus
♂'s & ♀'s

N 2149

RML 111023

24 vials of Rhipicephalus appendiculatus
as follows: 34♂, 37 ♀; 86♂, 82♀;
42♀; 72♀; 37 ♂; 13 ♀; 112 ♂; 9 ♀;
224 ♀; 14 N; 122 N; 4 N; 276 N; 321 N;
+600 N; 5 N, 16 L; 336 L; +1000 L;
+1000 L; 4 ♀ dry in token tube; 72 ♂
dry in token tube; 1 vial of eggs in
separate egg jar

Calf

Cape Colony, S. Africa

Cape Colony, Republic of South Africa

Rec'd 10.XI.1910

Rec'd 10.XI.1910

Rec'd from Mr. C. P. Lounsbury

Rec'd from Mr. C. P. Lounsbury

[Used for East Coast Fever
investigations I raised through
several generations]
(See Parasitology, vol. VI, P. 111)
et seq.
[2 slides, balsam mounts (I)
♂ ♀ (II) larvae]

Rearing cycle study at Cambridge,
England
Cited: Nuttall (1913d; 111)
(1913e: 197).

1 ♂, ♀'s, N's, L's to Prof. Dr. Dahl, Berlin Museum VII.1914.
1 ♂, ♀'s, N's, L's to Prof. Dr. S. Schenkling, Deutsches Entomol. Mus. VII.1914.
1 ♂, 1 ♀ to Dr. E. Roubaud, Institute Pasteur, Paris 12.X.1922.
1 ♂, 1 ♀ to Prof. J. Hjort Univ. Christiana Norway, 12.X.1922.
1 ♂, 1 ♀ to Dr. A. Watkins Pitchford, Army Vet. Sch. Thorhill, Aldershot 12.X.1922.
1 ♂, 1 ♀ to L.P.W. Renouf, Biol. Dept. Univ. Coll., Cork, Ireland 12.X.1922.
1 ♂, 1 ♀ to W. A. Pool, Indian Civil Veterinary Dept. 12.X.1922.
1 ♂, 1 ♀ to Dr. Wm. Parry Morgan, Publ. Hlth. Dept., Cardiff, Wales 12.X.1922.
1 ♂, 1 ♀ to J.E.M. Mellor, Malvern, Coll., Malvern 12.X.1922.
1 ♂, 1 ♀ to Prof. A. Bettencourt, Inst. Camara Pestana, Lisbon 7.XI.1922.
1 ♂, 1 ♀ to Prof. E. Brumpt, Ecole Medicine, Paris 12.X.1922.
1 ♂, 1 ♀ to I. C. Ross, Sydney University, Australia.
♂'s, ♀'s to Dr. E. Pavlovsky, Leningrad 9.X.1925.
All stages to Prof. R. A. Cooley, Montana V.1928.
2 ♂, 2 ♀ to Dr. A. C. Reed, San Francisco 30.V.1929.
2 ♂, 2 ♀ to Prof. J. Drbohlav, Prague 30.V.1929.
LL♂s to R. W. Mettam, Weybridge IV.1931.
LL's to H. S. Purchase IV.1931.
1 ♂, 1 ♀ to Prof. D'Arcy Thompson XI.1931.
2 ♂, 2 ♀ to Prof. R. Matheson, Cornell 27.V.1929.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2150

Hyalomma aegyptium 1 ♂

Bullock

Lahore, Punjab, India

Sent 2.IV.1913

K. Walker

Sent by Major G. N. Mather,
C.V.D.

N 2150

RML 111024

1 ♂ Hyalomma anatolicum anatolicum

Bullock

Lahore (31.35 N, 74.18 E), Pakistan

Sent 2.IV.1913

K. Walker

This specimen is in a jar marked
"Tick Abnormalities."Cited and figured: Nuttall (1914a:
257) who listed the tick as being
sent by Major J. N. Mathers.

N 2151

Haemaphysalis punctata ♀'s

Sheep

Lydd, Kent

13.III.1905

C. T. Sellens

N 2151

RML 111025

3 ♀ Haemaphysalis punctata

Sheep

Lydd (50.57 N, 00.55 W), Kent, England

13.III.1905

C. T. Sellens

1 ♀ of this collection in a jar
marked "Tick Abnormalities"
Cited: Warburton & Nuttall (1909: 71).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2152

Haemaphysalis punctata ♀'s

Sheep

Littlebourne, Kent

15.IV.1905

N 2152

RML 111026

3 ♀ Haemaphysalis punctata

Sheep

Littlebourne (51.16 N, 01.10 E),
Kent, England

15.IV.1905

All specimens in a jar marked "Tick
Abnormalities."
Cited: Warburton & Nuttall (1909: 71).

N 2153

Haemaphysalis bispinosa ♂

"22b" from India

No other data
[Mentioned in Parasitology
vol. V, p. 70 (foot)]

N 2153 MISSING

N 2154

Amblyomma hebraeum 2 ♀'s
Laying large numbers of eggs

Rec'd 12.V.1913

Rec'd from Messrs. Wm. Cooper
& Nephews, Terminus Street,
East London, South Africa
[Used for raising experiments.]

N 2154 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 2155

N 2155

RML 111027

Ornithodoros lahorensis nymphs7 N Ornithodoros lahorensisSharpoo (Ovis vignei)Ovis orientalis vignei

Gilgit, Kashmir, India

Gilgit (35.55 N, 74.18 E), Kashmir,
India

20.III.1913

20.III.1913

Rec'd from Captain G. D.
Franklin, 12 May, 1913Rec'd from Captain G. D. Franklin,
12 May, 1913

(C. W. det. 1917)

N 2156, a

N 2156

RML 111028

(2156) Dermacentor niveus ♂ & ♀(2156) 11 vials of Dermacentor niveus
as follows: 2 ♂; 3 ♀; 12 N; 40 L;
4 ♂, 5 ♀, 7 N; 3 ♀; 24 L; 21 N; 124 L;
50 ♂, 86 ♀; 9 ♂, 7 ♀, 7 N.(a) Hyalomma aegyptium

(a) MISSING

Tamarix gallica (shrub)Tamarix gallica

Pina, Zaragoza, Spain

Pina de Ebro (41.29 N, 00.32 W)
Provincia de Zaragoza, Spain

12.V.1913

12.V.1913

Rec'd from Dr. Longin Navas,
Colegio del Salvador, Zaragoza,
16.V.1913Rec'd from Dr. Longin Navas,
Colegio del Salvador, Zaragoza,
16.V.1913[♂ & ♀ 2156 painted alive by
Wilson. Placed on sheep,
copulated, ♂ lost, ♀ oviposited,
eggs fertile, progeny being
raised G.H.F.N.]Ticks raised on ram at Cambridge
Cited: Nuttall (1915: 421) ;
Cited & Figured: Nuttall
(1920: 2, pl II, figs. 4,5).

Five tubes of ticks received from P. A. Buxton, Esq., Trinity College,
Cambridge, 16 May, 1913:-

ORIGINAL DETERMINATION

CURRENT STATUS

N 2157

N 2157

RML 111029

Ixodes brunneus ♀

1 N Ixodes ricinus

Hawfinch Coccothraustes c. burryi

Coccothraustes c. burryi

Hammam-Meskoutine, E. Algeria,
N. Africa

Hammam Meskoutine (36.27 N, 07.16 E),
Algeria

31.III.1913

31.III.1913

P. A. B.

P. A. Buxton

Patrick Alfred Buxton (1892-1955)
Diploma in tropical medicine 1921,
Entomologist in Palestine and 2 years
later to Samoa. Well known Medical
Entomologist and author of books
on The Louse, History of Tsetse
Flies and Memoirs on Trypanosomiasis
in Eastern Africa.

Cited: Nuttall (1916: 325).

N 2158

N 2158

RML 111030

Rhipicephalus (Pterygodes)
fulvus N's

20 N, 1 L Rhipicephalus fulvus

Gundi (Ctenodactylus gundi)
a rodent

Ctenodactylus gundi

El Kantara, Algeria, N. Africa

El Kantara (35.13 N, 05.43 E), Algeria

14.IV.1913

14.IV.1913

P. A. B.

P. A. Buxton

ORIGINAL DETERMINATIONCURRENT STATUS

N	2159	N	2159
		RML	111031
	<u>Hyalomma syriacum</u> ♂'s		6 ♂ <u>Hyalomma aegyptium</u>
	Tortoise (<u>Testudo</u> sp.)		<u>Testudo</u> sp.
	Hamam-Meskoutine, E. Algeria, N. Africa		Hamam Meskoutine (36.27 N, 07.16 E), Algeria
	1.IV.1913		1.IV.1913
	P. A. B.		P. A. Buxton
N	2160	N	2160 MISSING
	<u>Ixodes ricinus</u> ♀		
	Crested Lark		
	Hamam-Meskoutine, E. Algeria, N. Africa		
	31.III.1913		
	P. A. B.		
N	2161	N	2161
		RML	111032
	<u>Hyalomma</u> sp. N		1 N <u>Hyalomma</u> sp.
	Sand plover (<u>Aegialitis cantiana</u>)		<u>Charadrius alexandrinus</u>
	Garaet Achkal, N.E. Tunisia, N. Africa		Qar'at al Ashkal (37.10 N, 09.40 E) Banzart, Tunisia
	26.III.1913		26.III.1913
	P. A. B.		P. A. Buxton

Ticks received from Dr. O. Wagner, Successor de J. Meyer, Botica Inglesa, Union-Espaderos, Lima, Peru, S. America:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2162	N	2162
		RML	111033
	<u>Boophilus australis</u> ♀'s		15 ♀ <u>Boophilus annulatus</u>
	Cattle		Cattle
	Lima, Peru		Lima (12.03 S, 77.03 W), Peru
	II.1913		II.1913
			See remark under N 1830
N	2163	N	2163
		RML	111034
	<u>Boophilus australis</u> ♀'s		17 ♀ <u>Boophilus annulatus</u>
	Cattle		Cattle
	Lima, Peru		Lima (12.03 S, 77.03 W), Peru
	II.1913		II.1913
			See remark under N 1830
N	2164	N	2164
		RML	111035
	<u>Ixodes hexagonus</u> 1 ♀, 2 N's, 2 L		1 ♀, 2 N, 1 L <u>Ixodes hexagonus</u>
	White ferret		<u>Mustela furo</u>
	White House Farm, Gresford, near Wrexham, North Wales		White House Farm, Gresford (53.05 N, 02.58 W), Wales
	19.V.1913		19.V.1913
	Sent by Miss G. D. Hay, 21.V.1913		Sent by Miss G. D. Hay, 21.V.1913
			Cited: Nuttall (1916: 328).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2165

N 2165 MISSING

Haemaphysalis sp. 6 larvae
(mounted in balsam)

Parents off cattle?

North Island, New Zealand

IV.1913

Rec'd from C. J. Reakes, Esq.,
Officer in Charge, Veterinary
Laboratory, Dept. of Agriculture,
Industries & Commerce,
Wallaceville, New Zealand,
20 May, 1913. [a slide]

Five tubes of ticks received from E. A. Copeman, Esq., Broken Hill, N. Rhodesia,
British Central Africa, 24 May, 1913:-

N 2166

N 2166 MISSING

Ornithodoros moubata

Human beings (natives)

Broken Hill, N. Rhodesia

II-III.1913

[Native name Mkufu]

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2167, a	N	2167
		RML	111036
	(2167) <u>Boophilus decoloratus</u> ♀'s (a) <u>Amblyomma variegatum</u> 2 ♂, 1 ♀		(2167) 8 ♀ <u>Boophilus decoloratus</u> (a) MISSING
	Cattle		Cattle
	Broken Hill, N. Rhodesia		Kabwe (14.27 S, 28.27 E), Zambia
	III.1913		III.1913
	♀'s to Dr. K. F. Meyer, Univ. California, Berkeley 15.XI.1913. Some (sex/stage not stated) to Prof. O. Duboscq, Montpellier, France 10.II.1914.		
N	2168	N	2168 MISSING
	<u>Hyalomma aegyptium</u> ♂, ♀'s		
	Sheep		
	Broken Hill, N. Rhodesia		
	IV.1913		
N	2169 a, b	N	2169, a, b
		RML	111037
	(2169) <u>Rhipicephalus sulcatus</u> ♂'s, ♀'s		(2169) 13 ♂, 29 ♀ <u>Rhipicephalus sulcatus</u>
	(a) <u>Ixodes rubicundus</u> 3 ♀'s		(a) 3 ♀ <u>Ixodes cavipalpus</u>
	(b) <u>Haemaphysalis leachi</u> 2 ♀'s		(b) 2 ♀ <u>Haemaphysalis leachi</u>
	Dogs		Dogs
	Broken Hill, N. Rhodesia		Kabwe (14.27 S, 28.27 E), Zambia
	II-III.1913		II-III.1913
	<u>R. sulcatus</u> compared 18.VI.1914 with <u>R. sulcatus</u> 1 ♂, 1 ♀ types No. 1439 in Neumann's coll., our ♂ identical but smaller = <u>R. sanguineus</u> var. <u>sulcatus</u> (Nn) Warb. & Nutt.		2169a cited: Nuttall (1916: 333). 2169b cited: Nuttall & Warburton (1915: 470).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2170, a-c

N 2170, c

RML 111038

(2170) Amblyomma variegatum
♂'s, ♀'s(2170) 25 ♂, 5 ♀ Amblyomma variegatum(a) Rhipicephalus evertsi ♂'s, ♀'s

(a) MISSING

(b) Hyalomma aegyptium 1 ♀

(b) MISSING

(c) Boophilus decoloratus ♀'s(c) 10 ♀ Boophilus decoloratus

Sheep

Sheep

Broken Hill, N. Rhodesia

Kabwe (14.27 S, 28.27 E), Zambia

II-III.1913

II-III.1913

1 ♂, 1 ♀ R. evertsi to J. de
Meza, Zomba, Nyasaland 19.II.1916Vial label for Boophilus decoloratus
collection incorrectly reads 2170b.

N 2171, a

N 2171, a

RML 111039

(2171) Hyalomma aegyptium ♂, ♀'s(2171) 5 ♂, 4 ♀ Hyalomma marginatum(a) Rhipicephalus sanguineus ♀'s(a) 9 ♀ Rhipicephalus sanguineus

Dogs

Dogs

Huelva, Spain

Huelva (37.16 N, 06.57 W), Spain

20.V.1913

20.V.1913

Received from Dr. Ian
Macdonald, Casa Colon, Huelva,
26.V.1913.Received from Dr. Ian Macdonald,
Casa Colon, Huelva, 26.V.1913.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2172

Rhipicephalus (Pterygodes)
fulvus

Gondi

Matmata, S. Tunisia, N. Africa
(1,000-1,500 ft.)

Rec'd 8 May, 1913

Rec'd from Miss Helen
L. M. Pixell (Lister Institute,
London, S.W.)

N 2172

RML 66647

1 ♂, 2 ♀, 2 N Rhipicephalus fulvusCtenodactylus gundiMatmatah (33.33 N, 09.58 E),
Tunisia (305-457 m)

Rec'd 8 May, 1913

Rec'd from Miss Helen L. M. Pixell
(Lister Institute, London, S.W.)

One nymphal skin present

N 2173

Ornithodoros moubata

Native prison

Uganda, E. Africa

IV.1913

Dr. J. Howard Cook

Received 26.V.1913

N 2173

RML 111040

1 ♂, 8 N Rhipicephalus sp.

Native prison

Uganda

IV.1913

Dr. J. Howard Cook

The ♂ had just molted to an adult when
it was killed. It is a shriveled runt
and difficult to examine.

N 2174

Hyalomma syriacum ♂'s, ♀'s

Tortoise

Cambridge

26.V.1913

B. G. Clarke

[Used for raising experiments.]

N 2174

RML 111041

8 ♂ Hyalomma aegyptium

Tortoise

Cambridge (52.13 N, 00.08 E), England

26.V.1913

B. G. Clarke

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2175	N	2175 MISSING
	<u>Boophilus annulatus</u> ♀'s		
	Cattle		
	Fray Bentos, Uruguay, S. America		
	III.1913		
	Rec'd from Dr. Breitung		
	28.V.1913		
	Ten tubes of ticks received from Dr. S. T. Darling, Department of Sanitation, Ancon, Canal Zone, Panama, Central America, 28 May, 1913:-		
N	2176	N	2176
		RML	111042
	<u>Amblyomma dissimile</u> ♂, ♀, N, L		2 ♂, 1 N, 1 L <u>Amblyomma dissimile</u>
	Green snake (<u>Oxybelis acuminatus</u>)		<u>Oxybelis aeneus</u>
	Panama		Panama
	IV.1913		IV.1913
			Cited: Robinson (1926: 167).
N	2177	N	2177
		RML	111043
	<u>Ornithodoros talaje</u>		5 ♂, 2 ♀, 3 N <u>Ornithodoros talaje</u>
	From bamboo bed in native shack		From bamboo bed in native shack
	Chorrera, Republic of Panama		La Chorrera (08.53 N, 79.47 W), Panama
	IV.1913		IV.1913
	("Chinche mammones")		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2178	N	2178
	<u>Amblyomma cajennense</u> 2 ♂'s	RML	111044
	Native horses		2 ♂ <u>Amblyomma cajennense</u>
	Chorrera, Rep. of Panama		Horses
	IV.1913		La Chorrera (08.53 N, 79.47 W), Panama
			IV.1913
			Cited: Robinson (1926 : 53).
N	2179	N	2179 MISSING
	<u>Amblyomma cajennense</u> 2 ♀'s		
	Native horse		
	Chorrera, Rep. of Panama		
	IV.1913		
N	2180	N	2180 MISSING
	<u>Amblyomma cajennense</u> 2 ♀'s		
	Native horse		
	Chorrera, Rep. of Panama		
	IV.1913		
N	2181	N	2181
	<u>Dermacentor nitens</u> N's	RML	111045
	Native horse		5 N <u>Anocentor nitens</u>
	Chorrera, Rep. of Panama		Horse
	IV.1913		La Chorrera (08.53 N, 79.47 W), Panama
			IV.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2182	N	2182 MISSING
	<u>Amblyomma cajennense</u> 1 ♂ & N's		
	Native horse		
	Chorrera, Rep. of Panama		
	IV.1913		
N	2183	N	2183
		RML	111046
	<u>Amblyomma cajennense</u> 3 N's		
	Native horse		Horse
	Chorrera, Rep. of Panama		La Chorrera (08.53 N, 79.47 W), Panama
	IV.1913		IV.1913
			Cited: Robinson (1926: 53).
N	2184, a	N	2184
		RML	111047
	(2184) <u>Dermacentor nitens</u> 1 ♂		(2184) 1 ♂ <u>Anocentor nitens</u>
	(a) <u>Amblyomma cajennense</u> 1 N		(a) MISSING
	Native horse		Horse
	Chorrera, Rep. of Panama		La Chorrera (08.53 N, 79.47 W), Panama
	IV.1913		IV.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2185	N	2185
		RML	111048
	<u>Amblyomma dissimile</u> ♂'s & ♀'s		4 ♂, 3 ♀ <u>Amblyomma dissimile</u>
	Snake (sp. unknown)		Snake
	Panama		Panama
	IV.1913		IV.1913
	[2 ♀ mounted in cells with other <u>Amblyomma</u> spp.]		Slide missing
	1 ♂, 1 ♀ to Prof. E. Brumpt, Paris		Robinson (1926: 167) gave the species of snake as <u>Oxybelis acuminatus</u> .
N	2186	N	2186
		RML	111049
	<u>Boophilus australis</u> ♀'s		50 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Fray Bentos, Uruguay, S. America		Fray Bentos (33.08 S, 58.18 W), Uruguay
	IV.1913		IV.1913
	Rec'd from Dr. Breitung, 28.V.1913		Rec'd from Dr. Breitung, 28.V.1913
N	2187, a	N	2187
		RML	111050
	(2187) <u>Aponomma gervaisi</u> var. <u>lucasi</u> ♂'s, ♀'s		(2187) 7 ♂, 3 ♀, 2 N <u>Aponomma varanensis</u>
	(a) <u>Amblyomma decoratum</u>		(a) MISSING
	<u>Varanus salvator</u>		<u>Varanus salvator</u>
	Buitenzorg, Java, Dutch East Indies		Bogor (06.35 S, 106.47 E), Java, Indonesia
	14.IV.1913		14.IV.1913
	Rec'd from F. P. Jepson 29.V.1913		Rec'd from F. P. Jepson 29.V.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2188, a	N	2188
		RML	105656
	(2188) <u>Rhipicephalus simus</u> ♂'s, ♀'s		(2188) 15 ♂, 4 ♀ <u>Rhipicephalus simus</u>
	(a) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(a) MISSING
	Wart-hogs		<u>Phacochoerus aethiopicus</u>
	Mwengwa, Mumbwa, via Broken Hill, N. Rhodesia, B.C. Africa		Mwengwa (15.17 S, 25.59 E), Zambia
	21.IV.1913		21.IV.1913
	Rec'd from L. C. Heath, Esq., 2.VI.1913		Rec'd from L. C. Heath, Esq., 2.VI.1913
	1 ♂, 1 ♀ <u>R. simus</u> to Dr. S. Hadwen, British Columbia 10.X.1913.		
	Four tubes of ticks received from Dr. T. L. Bancroft, Eidsvold, Queensland, Australia, 3 June, 1913:-		
N	2189	N	2189
		RML	111051
	<u>Aponomma decorosum</u> ♂'s & N's		14 ♂, 10 N <u>Aponomma decorosum</u>
	<u>Varanus varius</u>		<u>Varanus varius</u>
	Queensland		Queensland, Australia
	IV.1913		IV.1913
	T.L.B.		T. L. Bancroft
			The 14 ♂ cited by Kaufman (1972: 369).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2190

Ixodes tasmani 1 ♀

Trichosurus vulpecula

Queensland

IV.1913

T. L. Bancroft

N 2190

RML 111052

1 ♀ Ixodes tasmani

Trichosurus vulpecula

Queensland, Australia

IV.1913

T. L. Bancroft

Cited and figured: Nuttall (1916: 323).

N 2191

Boophilus australis L & eggs

Parents off cattle

Burnett District, Queensland

IV.1913

T.L.B.

N 2191

RML 111053

64 L plus eggs Boophilus microplus

Cattle

Burnett District, Queensland,
Australia

IV.1913

T. L. Bancroft

N 2192

Haemaphysalis sp. 1 N

Macropus dorsalis

Queensland

IV.1913

T.L.B.

N 2192

RML 111054

1 N Haemaphysalis bancrofti

Macropus dorsalis

Queensland, Australia

IV.1913

T. L. Bancroft

ORIGINAL DETERMINATIONCURRENT STATUS

N 2193

N 2193

RML 111055

Rhipicephalus sanguineus 1 ♀
& eggs1 ♀, many eggs Rhipicephalus sanguineus

Dog

Dog

Matmata, S. Tunisia, N. Africa

Matmatah (33.33 N, 09.58 E), Tunisia

IV.1913

IV.1913

Miss Helen L. M. Pixell
Rec'd 4.VI.1913Miss Helen L. M. Pixell
Rec'd 4.VI.1913

Ticks retained from the collection submitted for determination by Dr. J. H. Ashworth, Zoological Department, The University, Edinburgh, N.B. 30 May, 1913:-

N 2194

N 2194

RML 111056

Rhipicephalus falcatus ♂ & ♀1 ♂, 1 ♀ Rhipicephalus senegalensis

Cattle

Cattle

Forea, Sierra Leone, W. Africa

Perhaps Fore (09.44 N, 11.09 W),
Sierra Leone

28.II.1913

28.II.1913

Dr. J. Y. Wood "3a"

Dr. J. Y. Wood "3a"

N 2195

N 2195 MISSING

Boophilus australis ♂'s, ♀'s

Cow (sick)

Kondambia, Sierra Leone, W. Africa

24.I.1913

Dr. J. Y. Wood "4"

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2196	N	2196
		RML	111057
	<u>Amblyomma marmoreum</u> 2 ♂		2 ♂ <u>Amblyomma nuttalli</u>
	<u>Varanus exanthematicus</u>		<u>Varanus exanthematicus</u>
	N. Nigeria		Nigeria
	1912		1912
	Dr. J. M. Dalziel "3"		Dr. J. M. Dalziel "3"
			Cited: Santos Dias (1958: 513); Theiler & Salisbury (1959: 115).
N	2197	N	2197
		RML	111058
	<u>Rhipicephalus sanguineus</u> ♂'s & ♀'s		24 ♂, 11 ♀ <u>Rhipicephalus sanguineus</u>
	Civet cat		<u>Genetta</u> sp.
	Baro, N. Nigeria, W. Africa		Either Baro (08.36 N, 06.25 E), or (10.57 N, 08.20 E), Nigeria
	2.X.1910		2.X.1910
	Dr. Dalziel "4"		Dr. Dalziel "4"
N	2198	N	2198
		RML	111059
	<u>Haemaphysalis leachi</u> ♂'s & ♀'s		3 ♂, 1 ♀ <u>Haemaphysalis leachi</u>
	Civet cat		<u>Genetta</u> sp.
	Baro, N. Nigeria, W. Africa		Either Baro (08.36 N, 06.25 E) or (10.57 N, 08.20 E), Nigeria
	2.X.1910		2.X.1910
	Dr. Dalziel "4b"		Dr. Dalziel "4b"
			Cited: Nuttall & Warburton (1915: 473).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2199

Amblyomma marmoreum 4 ♂'sVaranus exanthematicus

Abinsi, N. Nigeria

XI.1912

Dr. Dalziel "5"

N 2199

RML 111060

4 ♂ Amblyomma nuttalliVaranus exanthematicus

Abinsi (07.45 N, 08.45 E), Nigeria

XI.1912

Dr. Dalziel "5"

Cited: Santos Dias (1958: 513);
Theiler & Salisbury (1959: 115).

N 2200

Aponomma exornatum ♂'s & N'sVaranus exanthematicus

Abinsi, N. Nigeria

XI.1912

Dr. Dalziel "5a"

N 2200

RML 111061

5 ♂, 5 N Aponomma flavomaculatumVaranus exanthematicus

Abinsi (07.45 N, 08.45 E), Nigeria

XI.1912

Dr. Dalziel "5a"

Eleven tubes of ticks received for determination from F. Eugene Mason, Esq., M.R.C.V.S., Public Health Department, Cairo, Egypt, 4 June, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2201	N	2201
		RML	66655
	<u>Rhipicephalus sanguineus</u> ♂'s & ♀'s		39 ♂, 48 ♀, 2 N <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Cairo		Cairo (30.03 N, 31.15 E), Egypt
	1913		1913
N	2202, a	N	2202a
		RML	111062
	(2202) <u>Hyalomma aegyptium</u> ♂'s, ♀'s (a) <u>Rhipicephalus bursa</u> ♂'s, 1 ♀		(2202) MISSING (a) 2 ♂, 1 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Khartoum		Khartoum (15.36 N, 32.32 E), Sudan
	1913		1913
N	2203, a	N	2203
		RML	111063
	(2203) <u>Amblyomma lepidum</u> ♂'s (a) <u>Hyalomma aegyptium</u> ♂, ♀		(2203) 8 ♂ <u>Amblyomma lepidum</u> (a) MISSING
	Cattle		Cattle
	Sudan		Sudan
	1913		1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2204	N	2204
		RML	111064
	<u>Amblyomma lepidum</u> ♂'s, ♀'s		1 ♂, 1 ♀ <u>Amblyomma lepidum</u>
	Cattle		Cattle
	Sudan		Sudan
	1913		1913
			Cited: Robinson (1926: 97).
N	2205, a, b	N	2205a, b
		RML	111065
	(2205) <u>Hyalomma aegyptium</u> ♂, ♀		(2205) MISSING
	(a) <u>Amblyomma lepidum</u> ♂, ♀'s		(a) 1 ♂, 3 ♀ <u>Amblyomma lepidum</u>
	(b) <u>Rhipicephalus sanguineus</u> 2 ♀'s		(b) 2 ♀ <u>Rhipicephalus sanguineus</u>
	Cattle		Cattle
	Wady Halfa, Egypt		Wadi Halfa (21.56 N, 31.20 E), Sudan
	1913		1913
N	2206	N	2206 MISSING
	<u>Hyalomma aegyptium</u> N's		
	Camel		
	Egypt		
	1913		

<u>CURRENT DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2207	N	2207
		RML	111066
	<u>Argas persicus</u>		5 ♂, 8 ♀, 14 N <u>Argas persicus</u>
	Fowls (after death on a farm)		Fowls (after death on a farm)
	Cairo		Cairo (30.03 N, 31.15 E), Egypt
	1913		1913
N	2208, a	N	2208
		RML	111067
	(2208) <u>Boophilus annulatus</u> ♂'s, ♀'s		(2208) 3♂, 20 ♀, 1 N <u>Boophilus annulatus</u>
	(a) <u>Hyalomma aegyptium</u> ♂'s		(a) MISSING
	Egyptian cattle (during an outbreak of Texas fever)		Cattle, Egyptian (during an outbreak of Texas fever)
	Lower Egypt		Lower Egypt
	1913		1913
N	2209	N	2209
		RML	111068
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		2 ♂, 10 ♀ <u>Rhipicephalus guilhoni</u>
	Egyptian sheep (after an outbreak of Malaria)		Sheep, Egyptian (after an outbreak of Malaria)
	Lower Egypt		Lower Egypt
	1913		1913
			Tentative identification; the ♂ spiracular plates have a very wide dorsal extension.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2210, a	N	2210a
		RML	111069
	(2210) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(2210) MISSING
	(a) <u>Amblyomma lepidum</u> ♂'s		(a) 5 ♂ <u>Amblyomma lepidum</u>
	Sudan cattle		Cattle, Sudanese
	Cairo abattoir		Abattoir, Cairo (30.03 N, 31.15 E), Egypt
	1913		1913
	[2 ♂ mounted in cell on slide]		2210a cited: Robinson (1926: 97).
N	2211	N	2211
		RML	111070
	<u>Boophilus</u> sp. N's		15 N <u>Boophilus annulatus</u>
	Egyptian bull (at close of an attack of Egyptian fever)		Bull, Egyptian (at close of an attack of Egyptian fever)
	Cairo		Cairo (30.03 N, 31.15 E), Egypt
	1913		1913
	Ticks received from L. C. Heath, Esq., Mwengwa, Mumbwa, N. Rhodesia, B. C. Africa, 9 June 1913:-		
N	2211 Z	N	2211 Z
		RML	111071
	<u>Rhipicephalus neavei</u> var. <u>punctatus</u> 3 ♂'s		2 ♂, 1 ♀ <u>Rhipicephalus punctatus</u>
	Duikerbok		<u>Sylvicapra grimmia</u>
	Mwengwa, Mumbwa, N. Rhodesia		Mwengwa (15.17 S, 25.59 E), Zambia
	30.IV.1913		30.IV.1913
			When turning from page 140 to 141 in his catalogue, Nuttall inadvertently repeated N 2211

ORIGINAL DETERMINATIONCURRENT STATUS

N 2212, a

(2212) Rhipicephalus simus ♂'s, ♀'s
 (a) Hyalomma aegyptium ♂, ♀

Wart-hog

Mwengwa, Mumbwa, N. Rhodesia

30.IV.1913

N 2213

Hyalomma aegyptium ♂, ♀

Off. Mr. Dollman's leg

Mwengwa, Mumbwa, N. Rhodesia

30.IV.1913

N 2212

RML 111072

(2212) 5 ♂, 2 ♀ Rhipicephalus simus
 (a) MISSING

Phacochoerus aethiopicus

Mwengwa (15.17 S, 25.59 E), Zambia

30.IV.1913

N 2213 MISSING

Eleven tubes of ticks received from Professor Louis E. Migone, Asuncion, Paraguay, South America, 4 June 1913:-

ORIGINAL DETERMINATION

CURRENT STATUS

N 2214

N 2214

RML 111073

Amblyomma cajennense ♀'s

9 ♀ Amblyomma cajennense

7 ♀ Amblyomma coelebs

Man, cow, dog, some on leaves of trees

Man, cow, dog, some on leaves of trees

Forests of San Pedro, Alto, Paraguay

Forests of San Pedro (24.07 S, 56.59 W), Paraguay

1.II-1.III.1913

1.II-1.III.1913

[2214-2216] Prof. Migone wrote 7.XII.1913 regarding these ticks. A. cajennense called in the Guarani language there "Yatebu'vacapi", "Yatebu'Panuelo" or "Yatebu'corbata". Yatebu' is the generic name for tick. "vacapi" = hide;" "panuelo" [Spanish] = handkerchief; "corbata" [Spanish] = neck-kerchief. The names meaning tick looking like a hide or have [?] a handkerchief or neck-kerchief. This tick more in the large forests than in the plains, on vegetation, ferociously attack man, cattle, tapir, dog, etc; effects of bite bad (sent reprint) see Migone (1913 Bull. Soc. Path. Exot. VI.118) where refers to effect of bite as bad "when the weather is dry they can be heard walking in the dry leaves on the ground approaching their prey." A. cajennense N's called in Guarani "Yatebu'pýtami" or "Yatebu poropi" = red ticks or ticks that bite." They live in numbers on leaves in May, falling off in hundreds on the passerby. He adds "They scarcely attack the animals." A. cajennense abounds now in all N. of Paraguay attacking man, wild & domesticated animals of all sorts.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2215

N 2215

RML 111074

Amblyomma cajennense ♂'s5 ♂ Amblyomma cajennense3 ♂ Amblyomma coelebs

Man, cow, dog, some on leaves of trees

Man, cow, dog, some on leaves of trees

Forests of San Pedro, Alto, Paraguay

Forests of San Pedro (24.07 S, 56.59 W), Paraguay

1.II-1.III.1913

1.II-1.III.1913

N 2216

N 2216

RML 111075

Amblyomma cajennense gorged N's61 N Amblyomma sp.

Man, cow, dog, some on leaves of trees

Man, cow, dog, some on leaves of trees

San Pedro, Paraguay

San Pedro (24.07 S, 56.59 W), Paraguay

1.II-1.III.1913

1.II-1.III.1913

N 2217

N 2217

RML 111076

Ornithodoros talaje8 ♂, 18 ♀, 4 N Ornithodoros talaje

Asuncion, Paraguay

Asuncion (25.16 S, 57.40 W), Paraguay

1913

1913

L. E. Migone

L. E. Migone

"Fowl lice." Abounds in fowl yards & unkempt places. Migone doesn't think spirochaetosis occurs there.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2218	N	2218
		RML	111077
	<u>Ornithodoros rostratus</u> (3)		1 ♂, 2 ♀ <u>Ornithodoros rostratus</u>
	North Paraguay		Paraguay, northern
	II.1913		II.1913
	L. E. Migone		L. E. Migone
	Called by Brazilians in Portuguese "garrapata do chas" = ticks of the soil. They attack man, fowl, dog. (see 2676)		
N	2219, a, b	N	2219, a, b
		RML	111078
	(2219) <u>Amblyomma ovale</u> 3 ♂, 2 ♀		(2219) 2 ♂, 1 ♀ <u>Amblyomma ovale</u>
	(a) <u>Amblyomma cajennense</u> ♂, ♀		(2219) 1 ♂, 1 ♀ <u>Amblyomma striatum</u>
	(b) <u>Amblyomma cooperi</u> 1 ♂		(a) 1 ♂, 1 ♀ <u>Amblyomma cajennense</u>
			(b) 1 ♂ <u>Amblyomma braziliense</u>
	Man and cow		Man and cow
	San Pedro, Alto, Paraguay		San Pedro (24.07 S, 56.59 W), Paraguay
	II.1913		II.1913
			2219, a cited: Robinson (1926: 29 and 53) respectively.
N	2220	N	2220
		RML	113641
	<u>Boophilus australis</u> ♂'s, ♀'s		6 ♂, 9 ♀ <u>Boophilus microplus</u>
	Horse		Horse
	San Bernardino, Argentine Republic		San Bernardino (30.49 S, 64.01 W) Provincia de Córdoba, Argentina
	V.1913		V.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2221	N	2221 MISSING
	<u>Boophilus australis</u> ♂, ♀'s		
	Horse		
	San Pedro, Paraguay		
	V.1913		
N	2222, a, b	N	2222, b
		RML	111079
	(2222) <u>Amblyomma cajennense</u> ♂'s, ♀'s		(2222) 7 ♂, 5 ♀, 1 N <u>Amblyomma</u>
	(a) <u>Boophilus australis</u> ♂, ♀'s, N's		<u>cajennense</u>
	(b) <u>Amblyomma ovale</u> 4 ♀		(a) MISSING
	Cow		(b) 4 ♀ <u>Amblyomma striatum</u>
	San Pedro, Paraguay		Cow
	II.1913		San Pedro (24.07 S, 56.59 W), Paraguay
	(b) det. L. E. Robinson 1926		II.1913
			Cited: Robinson (1926: 53).
N	2223	N	2223 MISSING
	<u>Boophilus australis</u> ♂, ♀'s, N's		
	Cattle		
	San Bernardino, Paraguay		
	V.1913		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2224, a	N	2224
		RML	111080
	(2224) <u>Amblyomma ovale</u> 1 ♀		(2224) 1 ♀ <u>Amblyomma ovale</u>
	(a) <u>Amblyomma</u> sp. 2 ♀'s		(a) MISSING
	(2224) Hunting dog		Dog, hunting
	(a) Tapir (hunted by the dog)		
	Villa Rica, Paraguay		Villarrica (25.45 S, 56.26 W), Paraguay
	I.1913		I.1913
	L. E. Robinson det. 1926		2224 figured: Robinson (1926: 28).
Five tubes of ticks received from Walter W. Charter, Esq., Inspector of Agriculture, Repartição de Agricultura Quelimane, Zambesia, Portuguese E. Africa 27.IV.1913:-			
N	2225	N	2225
		RML	111081
	<u>Boophilus australis</u> ♂'s, ♀'s, N's		6 ♂, 23 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Zambesia		Distrito da Zambesia (17.00 S, 37.00 E), Mozambique
	27.IV.1913		27.IV.1913
N	2226	N	2226
		RML	111082
	<u>Boophilus australis</u> 1 ♂, ♀'s		23 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Bompona, Zambesia		Bompona (17.34 S, 35.19 E), Distrito da Zambesia, Mozambique
	27.IV.1913		27.IV.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2227

Boophilus australis 1 ♂, ♀'s

Cattle

Zambezia

27.IV.1913

N 2227

RML 111083

1 ♂, 18 ♀ Boophilus microplus

Cattle

Distrito da Zambezia (17.00 S,
37.00 E), Mozambique

27.IV.1913

N 2228

Boophilus australis 2 ♂'s, ♀'s

Cattle

Zambezia

27.IV.1913

N 2228

RML 111084

1 ♂, 19 ♀ Boophilus microplus

Cattle

Distrito da Zambezia (17.00 S,
37.00 E), Mozambique

27.IV.1913

N 2229, a

(2229) Boophilus australis 2 ♂'s
♀'s(a) Amblyomma variegatum 2 ♀

Cattle

Zambezia

27.IV.1913

N 2229

RML 111085

(2229) 3 ♂, 11 ♀ Boophilus microplus

(a) MISSING

Cattle

Distrito da Zambezia (17.00 S,
37.00 E), Mozambique

27.IV.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2230

N 2230

RML 111086

Ornithodoros tholozani (1) alive1 ♀ Ornithodoros tholozani

Quetta, Baluchistan, India

Quetta (30.12 N, 37.00 E), Pakistan

1912

1912

Major G. Browse, I.M.S.

Major G. Browse, I.M.S.

Rec'd from Colonel Sir W. B.
Leishman, R.A.M.C., London, S.W.,
31.V.1912

[Used for raising experiments -
failed. Tick died 22.I.1912

Kept at room temperature]

[Moult on slide]

Some given to D. S. MacLagan

14.X.38.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2231

N 2231

RML 111087

Argas persicus (all stages)2 N, +500 L. Argas persicus group

Fowls

Fowls

Adelaide, South Australia

Adelaide (34.55 S, 138.35 E),
Australia

Rec'd 17.VI.1913

Rec'd 17.VI.1913

Rec'd from D. F. Lauria, Esq.,
Government Poultry Expert, AdelaideRec'd from D. F. Lauria, Esq.,
Government Poultry Expert, Adelaide

♂, ♂ all sizes to H. S. Purchase IV.1931.

♂, ♀ all sizes to R. W. Mettam, Weybridge IV.1931.

Different stages to Prof. E. Malvoz, Liège 30.V.1929.

Different stages to E. T. Boardman, Univ. Florida, Gainesville 30.V.1929.

1 ♂, 1 ♀, 1 N, 1 L to Dr. A. C. Reed, San Francisco 30.IV.1929.

1 ♂, 1 ♀, 1 N, 1 L to Prof. J. Drbohlav, Prague 30.V.1929.

1 ♂, 1 ♀, 1 N, 1 L to Prof. R. Matheson, Cornell 27.V.1929.

LL's to I. C. Ross, Univ. of Sydney, Australia

LL's to Prof. E. Brumpt, L'École de Médecine, Paris 12.X.1922.

Some (sex/stage unknown) to Dr. K. F. Meyer, Univ. California, Berkeley
15.XI.1913.

Some (sex/stage unknown) to Dr. Lajos Gozony, Univ. Budapest, Hungary 23.VI.1914.

1 ♂, 1 ♀ to Dr. de Blieck, Java 22.I.1915

LL's to Dr. E. Roubaud, Inst. Pasteur, Paris 12.X.1922.

LL's to Prof. J. Hjort, Univ. Christiania, Norway 12.X.1922.

LL's to Dr. A. Watkins Pitchford, Army Vet. School, Thornhill, Aldershot
12.X.1922.

LL's to L.P.W. Renouf, Univ. College, Cork, Ireland 12.X.1922.

LL's to W. A. Pool, Indian Civil Vet. Dept. 12.X.1922.

LL's to Dr. Wm. Parry Morgan, Publ. Hlth. Lab, Cardiff, Wales 12.X.1922.

LL's to J.E.M. Mellor, Malvern College, Malvern 12.X.1922.

LL's to Prof. A. Bettencourt, Inst. Camara Pestana, Lisbon 7.XI.1922.

Four tubes of ticks received from R. Stokoe, Esq., M.R.C.V.S., Lakhon, Lampang, Siam, Farther India, 17 June, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2232	N	2232
		RML	84532
<u>Haemaphysalis wellingtoni</u> ♂'s, 1 ♀, N's		8 ♂, 1 ♀, 1 N <u>Haemaphysalis wellingtoni</u>	
Chicken		Chicken	
Lakhon, Lampang		Lampang (18.18 N, 99.31 E), Thailand	
IV.1913		IV.1913	
		Nuttall & Warburton (1915: 481) gave the specimen numbers as 6 ♂, 1 ♀, 3 N	
N	2233	N	2233
		RML	111088
<u>Haemaphysalis wellingtoni</u> ♀'s (gorged)		5 ♀ <u>Haemaphysalis wellingtoni</u>	
Buffalo		Buffalo	
Lakhon, Lampang		Lampang (18.18 N, 99.31 E), Thailand	
IV.1913		IV.1913	
		Nuttall & Warburton (1915: 482) cited 6 ♀	
N	2234	N	2234
		RML	22305
<u>Haemaphysalis wellingtoni</u> ♀'s		2 ♀ <u>Haemaphysalis wellingtoni</u>	
Dog		Dog	
Lakhon, Lampang		Lampang (18.18 N, 99.31 E), Thailand	
IV.1913		IV.1913	
		Nuttall & Warburton (1915: 482) cited 7 ♀	

ORIGINAL DETERMINATIONCURRENT STATUS

N 2235

Boophilus australis 1 ♀

Horse

Lakhon, Lampang

IV.1913

N 2235

RML 111089

1 ♀ Boophilus microplus

Horse

Lampang (18.18 N, 99.31 E), Thailand

IV.1913

N 2236

Ixodes ricinus 1 ♂, 4 ♀

Cattle (suffering from redwater)

Near Toensberg on the farm Melsom
in Stokke County of Jarlsberg &
Larvik, S. Norway, also from
Sundalen, County Romsdalen, W. Norway

Rec'd 20.IV.1913

Rec'd from Direktor Malm,
Veterinaer-Laboratoriet,
Kristiania, Norway

Also received unstained cover-glass
blood smears. Blood films from
cow at Sundalen examined by me &
found to contain P. divergens
G.H.F.N. 21.VI.1913

N 2236

RML 111090

1 ♂, 1 ♀ Ixodes ricinus

Cattle (suffering from redwater)

Near Toensberg, vicinity of Jaresberg
(59.17 N, 10.21 E) and Larvik
(59.04 N, 10.00 E), Norway

Rec'd 20.IV.1913

Dr. O. Malm

Vial label gave no information on
2nd collecting site of Sundalen.
See also N 2272.
Cited: Nuttall (1916: 332).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2237	N	2237
		RML	111091
	<u>Dermacentor albipictus</u> ♀'s gorged		17 ♀ <u>Dermacentor albipictus</u>
	Moose (shot)		<u>Alces alces</u>
	Northern Manitoba, Canada		Northern Manitoba, Canada
	Rec'd 21.VI.1913		Rec'd 21.VI.1913
	Rec'd from Mr. M. J. O'Connell (sent to Mr. O'C. by hunter)		Rec'd from Mr. M. J. O'Connell (sent to Mr. O'C. by hunter)
	♀'s to Dr. E. Pavlovsky, Leningrad 9.X.1925		
N	2238	N	2238 MISSING
	<u>Argas persicus</u>		
	Trinidad, W. Indies		
	Sent 9.VI.1913		
	Sent by Dr. James W. Eakin		
	From "Gov't. Store" Labelled "fowl ticks"		
N	2239	N	2239
		RML	111092
	[Undetermined genus]		24 ♀ <u>Boophilus microplus</u>
	Trinidad, W. Indies		Trinidad (10.30N, 61.15W), Trinidad and Tobago
	Sent 9.VI.1913		Sent 9.VI.1913
	Sent by Dr. James W. Eakin		Sent by Dr. James W. Eakin
	From "Gov't Store" Labelled "cow ticks"		

Three tubes of ticks received from L. C. Heath, Esq., Mwengwa, Mumbwa, Broken Hill, N. Rhodesia, B. C. Africa, 3 July, 1913:-

ORIGINAL DETERMINATION

CURRENT STATUS

N	2240	N	2240
		RML	111093
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		16 ♂, 4 ♀ <u>Rhipicephalus appendiculatus</u>
	Impala (shot)		<u>Aepyceros melampus</u>
	Near Muroa's, Chisamba, N. Rhodesia		Near Muroa's (14.58 S, 28.27 E), Kabwe District, Zambia
	26.V.1913		26.V.1913
N	2241	N	2241 MISSING
	<u>Hyalomma aegyptium</u> 2 ♂, 1 ♀		
	Water-buck (shot)		
	Near Nangwena River, near Mwendanis, N. Rhodesia		
	26.V.1913		
N	2242	N	2242
		RML	111094
	<u>Rhipicephalus neavei</u> ♂ & ♀		1 ♂, 1 ♀ <u>Rhipicephalus punctatus</u>
	"Lichtenstein's Hartebeeste" (shot)		<u>Alcelaphus lichtensteini</u>
	Near Mwengwa Station, N. Rhodesia		Near Mwengwa (15.17 S, 25.59 E), Zambia
	5.V.1913		5.V.1913

Five tubes of ticks received from Dr. Wm. C. Wigan, U.M.C.A., Mpondas, Fort Johnston, Nyasaland, B.C. Africa, 27 June, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2243	N	2243
		RML	111095
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		8 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u> 3 ♂ <u>Rhipicephalus pravus</u>
	Eland		<u>Taurotragus oryx</u>
	Monkey Bay, Lake Nyasa		Monkey Bay (14.05 S, 34.55 E), Fort Johnston District, Malawi
	V.1913		V.1913
N	2244	N	2244
		RML	111096
	<u>Haemaphysalis leachi</u> ♂, ♀'s, N		1 ♂, 4 ♀ <u>Haemaphysalis indica</u>
	Dog (?)		Dog (?)
	Mpondas Fort Johnston, Nyasaland		Fort Johnston (14.28 S, 35.23 E), Fort Johnston District, Malawi
	I.1913		I.1913
	[a map of collecting localities is supplied by Dr. Wigan]		
N	2245	N	2245
		RML	111097
	<u>Rhipicephalus sanguineus</u> 1 ♂		1 ♂ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Msinje, Lake Nyasa, B.C. Africa		Msinje (13.31 S, 34.52 E), Fort Johnston District, Malawi
	V.1913		V.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2246

N 2246

RML 111098

Rhipicephalus sanguineus ♂, N's1 ♂, 2 N Rhipicephalus sanguineus

Dog

Dog

Kota Kota, Lake Nyasa

Nkota Kota (12.55 S, 34.18 E),
Nkota Kota District, Malawi

I.1913

I.1913

N 2247

N 2247 MISSING

Rhipicephalus sanguineus ♂'s, ♀'s

Dog

Mpondas Fort Johnston, Nyasaland

I.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2248

N 2248

RML 111099

Hyalomma syriacum ♂'s, ♀'s3 vials of Hyalomma aegyptium as follows: 4 ♂, 1 ♀; 1 ♀; 34 L

Tortoise

Tortoise

Cambridge

Cambridge (52.13 N, 00.08 E), England

4.VII.1913

4.VII.1913

Presented by Dr. Hindle

Presented by Dr. Hindle

One fully gorged ♀ reserved so that she may oviposit, she dropped off naturally & was supposed to be a baby tortoise by the lady who owned the host!

Cited: Nuttall (1915; 436).

G.H.F.N. det.

Ticks from Kosantu, Congo Free State, rec'd. for determination from Professor R. Newstead F.R.S., The University, Liverpool, 4.VII.1913, to whom they were sent by Reverend Père Renard, Recteur du Collège S. Servais, Liège, Belgium. The collection comprises

Boophilus decoloratus (many ♀'s), off cattle
Rhipicephalus appendiculatus (♀'s), off cattle
Rhipicephalus simus
Rhipicephalus supertritus
Amblyomma splendidum (many ♂'s, ♀'s), off ?
Ornithodoros moubata (many adults & N's)

Two tubes of ticks received from the Rev. T. B. Green, Quintana Yrrigoyen, Concordia, Entre Rios, Argentina, S. America, July 2, 1913:-

N 2249

N 2249 MISSING

Boophilus australis ♂'s, ♀'s

Angus bull

La Paz, Estancia Santa Inz, Entre Rios Argentina

27.V.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2250	N	2250
		RML	111100
	<u>Boophilus australis</u> ♀'s		84 ♀ <u>Boophilus microplus</u>
	Angus cow		Cow, Angus
	La Paz, Estancia Santa Inz, Entre Rios, Argentina		La Paz, Estancia Santa Inz Provincia de Entre Rios (32.00 S, 59.00 W), Argentina
	22.V.1913		22.V.1913
	Three tubes of ticks received from Dr. M. Abdullah, Assistant Surgeon, Gilgit, Kashmir, India, 4 July, 1913:-		
N	2251, a, b	N	2251, b
		RML	111101
	(2251) <u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		(2251) 18 ♂, 16 ♀ <u>Rhipicephalus sanguineus</u>
	(a) <u>Hyalomma aegyptium</u> ♂, ♀'s		(a) MISSING
	(b) <u>Haemaphysalis montgomeryi</u> 1 ♀		(b) 1 ♀ <u>Haemaphysalis montgomeryi</u>
	Sheep		Sheep
	Gilgit, Kashmir, India		Gilgit (35.55 N, 74.18 E), Kashmir, India
	V.1913		V.1913
			Dr. M. Abdullah
			Cited: Nuttall & Warburton (1915; 397).
N	2252	N	2252
		RML	111102
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		12 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Gilgit, Kashmir, India		Gilgit (35.55 N, 74.18 E), Kashmir, India
	V.1913		V. 1913
			Dr. M. Abdullah

ORIGINAL DETERMINATIONCURRENT STATUS

N	2253, a	N	2253
		RML	111103
	(2253) <u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		(2253) 7 ♂, 6 ♀ <u>Rhipicephalus</u> <u>sanguineus</u>
	(a) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(a) MISSING
	Goat		Goat
	Gilgit, Kahmir, India		Gilgit (35.55 N, 74.18 E), Kashmir, India
	V.1913		V.1913
			Dr. M. Abdullah
N	2254	N	2254 MISSING
	<u>Boophilus australis</u> ♀'s		
	Calf		
	Gilgit, Kashmir, India		
	V.1913		
Collection of ticks received from Dr. John Y. Wood, District Medical Officer, Kaballa, Koinadugu District, Sierra Leone Protectorate, West Africa, 2 July, 1913:-			
N	2255, a	N	2255
		RML	111104
	(2255) <u>Rhipicephalus lunulatus</u> ♂'s, ♀'s		(2255) 1 ♂, 3 ♀ <u>Rhipicephalus</u> <u>lunulatus</u>
	(a) <u>Rhipicephalus</u> sp. ♂'s, ♀'s		(a) MISSING
	Goats (healthy)		Goats (healthy)
	Konkoba, Sierra Leone		Konkoba (09.31 N, 11.40 W), Sierra Leone
	29.V.1913		29.V.1913
			J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2256, a, b	N	2256a, b
		RML	111105
	(2256) <u>Amblyomma variegatum</u> ♂'s, ♀'s (a) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s (b) <u>Boophilus australis</u> ♀'s		(2256) MISSING (a) 9 ♂, 5 ♀ <u>Rhipicephalus senegalensis</u> (b) 4 ♀ <u>Boophilus geigy</u>
	Cattle		Cattle
	Kasuntana, Sierra Leone		Kasunta, Sierra Leone (locality not verified)
	25.V.1913		25.V.1913
			J. Y. Wood
N	2257, a	N	2257, a
		RML	111106
	(2257) <u>Rhipicephalus neavei</u> ♂'s (small not characteristic) (a) <u>Haemaphysalis leachi</u> 1 ♂		(2257) 3 ♂ <u>Rhipicephalus ziemanni</u> (a) 1 ♂ <u>Haemaphysalis leachi</u>
	Goats (healthy)		Goats (healthy)
	Kagbo, Sierra Leone		Kagbo (09.03 N, 11.50 W), Sierra Leone
	19.V.1913		19.V.1913
			Dr. J. Y. Wood
			(2257a) cited: Nuttall & Warburton (1915:474).
N	2258, a	N	2258
		RML	111107
	(2258) <u>Haemaphysalis leachi</u> ♂, ♀ (a) <u>Rhipicephalus lunulatus</u> 1 ♂		(2258) 1 ♂, 2 ♀ <u>Haemaphysalis leachi</u> (a) MISSING
	Cows		Cows
	Kapankuna, Sierra Leone		Kapankuna, Sierra Leone (locality not verified)
	24.V.1913		24.V.1913
			Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N 2259, a, b

(2259) Boophilus australis ♀'s
 (a) Amblyomma splendidum ♂'s, 1 ♀
 (b) Amblyomma variegatum ♂'s

Cattle (healthy)

Madina, Sierra Leone

18.V.1913

N 2259, a

RML 111108

(2259) 4 ♀ Boophilus geigy
 (a) 7 ♂, 1 ♀ Amblyomma splendidum
 (b) MISSING

Cattle (healthy)

Madina, Sierra Leone (locality not
 verified; over 20 possible
 localities named Madina)

18.V.1913

J. Wood

(2259a) cited: Robinson (1926: 125).

N 2260, a

(2260) Boophilus australis ♀'s
 (a) Amblyomma variegatum ♂'s, ♀'s

Cows

Kamakola, Sierra Leone

26.V.1913

[a ♀ mounted on slide in cell]
 [a ♀ of A. variegatum - JEK]

N 2260

RML 111109

(2260) 3 ♀ Boophilus geigy
 (a) MISSING

Cows

Kamakola, Sierra Leone (locality not
 verified)

26.V.1913

Slide missing

ORIGINAL DETERMINATIONCURRENT STATUS

N 2261, a-d

(2261) Amblyomma variegatum
 σ 's, φ 's, N's

(a) Rhipicephalus falcatus σ 's, φ 's

(b) Rhipicephalus neavei (small
 not characteristic σ 's)

(c) Haemaphysalis leachi 1 φ

(d) Boophilus australis σ , φ

Cattle (healthy)

Koinadugu, Sierra Leone

III-IV-1913

1 σ , 1 φ [2261a] to Dr. S. Hadwen,
 Brit. Columbia, Canada 10.X.1913

N 2262, a-d

(2262) Amblyomma variegatum
 σ 's, φ 's, N's

(a) Boophilus australis φ 's

(b) Rhipicephalus falcatus σ 's, φ 's

(c) Amblyomma splendidum 1 σ

(d) Rhipicephalus neavei
 (small like 2257 & 2261) 2 σ

Cattle (healthy)

Koinadugu, Sierra Leone

III-IV.1913

1 φ A. variegatum pinned, 2 σ , 1 φ
 in cell on slide

N 2261 a-d

RML 111110

(2261) MISSING

(a) 14 σ , 11 φ Rhipicephalus
senegalensis

(b) 3 σ Rhipicephalus ziemanni

(c) 1 φ Haemaphysalis leachi

(d) 239 φ , 39 N Boophilus geigy

Cattle (healthy)

Koinadugu (09.32 N, 11.22 W),
 Sierra Leone

III-IV.1913

Dr. J. Y. Wood

(2261c) cited: Nuttall & Warburton
 (1915: 474).

N 2262, A-d

RML 111111

(2262) 1 φ Amblyomma variegatum

(a) 76 φ , 3 N Boophilus geigy

(b) 8 σ , 11 φ Rhipicephalus senegalensis

(c) 1 σ Amblyomma splendidum

(d) 1 σ , 1 φ Rhipicephalus ziemanni

Cattle (healthy)

Koinadugu (09.32 N, 11.22 W),
 Sierra Leone

III-IV.1913

Dr. J. Wood

(2262) a pinned specimen.
 Slide missing.
 (2262c) cited: Robinson (1926: 125).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2263	N	2263
	<u>Amblyomma tholloni</u> ♂'s, ♀'s	RML	111112
	Elephant		20 ♂, 17 ♀ <u>Amblyomma tholloni</u>
	Yeria, Sierra Leone		<u>Loxodonta africana</u>
	23.V.1913		Yeria, Sierra Leone (locality not verified)
	Shot by Captain Stanley		23.V.1913
	1 ♂, 1 ♀ to Prof. R. A. Cooley, Montana V.1928		Shot by Captain Stanley
			The collection sent to Prof. Cooley comprises 1 ♂, 2 ♀ <u>A. tholloni</u> and is now in the RML collection.
			Cited: Robinson (1926; 252).
N	2264	N	2264 MISSING
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s		
	Goats (healthy)		
	Koinadugu, Sierra Leone		
	III-IV.1913		
	1 ♀ to Prof. Dr. Dahl, Berlin Museum VII.1914.		
	1 ♀ to Prof. Dr. Schenkling, Deutsches Entomol. Mus. VII.1914.		
	1 ♀ to Prof. Dr. Gestro, Museu Civico di Storia Nat., Genova VII.1914.		
N	2265	N	2265 MISSING
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		
	Bull (healthy)		
	Kakanema, Sierra Leone		
	15.V.1913		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2266

Haemaphysalis leachi N

Leopard cub

Kaballa, Sierra Leone

V.1913

N 2266

RML 111113

1 N Haemaphysalis indicaPanthera pardusKabala (09.35 N, 11.33 W),
Sierra Leone

V.1913

Dr. J. Y. Wood

Cited: Nuttall & Warburton
(1915: 474).

N 2267

Boophilus australis ♀, N's

Sheep

Koinadugu, Sierra Leone

III-IV.1913

N 2267

RML 111114

1 ♀, 11 N Boophilus geigyi

Sheep

Koinadugu (09.32 N, 11.22 W),
Sierra Leone

III-IV.1913

Dr. J. Y. Wood

N 2268

Rhipicephalus falcatus 1 ♂

Goat (healthy)

Kasuntana, Sierra Leone

20.V.1913

N 2268

RML 111115

1 ♂ Rhipicephalus senegalensis

Goat (healthy)

Kasuntana, Sierra Leone (locality
not verified)

20.V.1913

Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N 2269

Haemaphysalis leachi ♀'s

Dog, young

Kasuntana, Sierra Leone

20.V.1913

N 2269

RML 111116

2 ♀ Haemaphysalis leachi

Dog, young

Kasuntana, Sierra Leone (locality
not verified)

20.V.1913

Dr. J. Y. Wood

Cited: Nuttall & Warburton (1915: 474).

N 2270

Rhipicephalus lunulatus ♂'s, ♀'s

Sheep (healthy)

Konkoba, Sierra Leone

29.V.1913

N 2270

RML 111117

4 ♂, 10 ♀ Rhipicephalus lunulatus

Sheep (healthy)

Konkoba (09.31 N, 11.40 W),
Sierra Leone

29.V.1913

J. Y. Wood

N 2271

Amblyomma tholloni ♂'s, ♀'s

Elephant

Yeria, Sierra Leone

22.V.1913

Shot by Captain Stanley

N 2271

RML 111118

3 ♂, 5 ♀ Amblyomma tholloniLoxodonta africanaYeria, Sierra Leone (locality not
verified)

22.V.1913

Shot by Captain Stanley

Cited: Robinson (1926: 252).

ORIGINAL DETERMINATIONCURRENT STATUS

N

2272

Ixodes ricinus ♂'s, ♀'s

Cow

Toensberg, County of Jarlsberg
& Larvik

Rec'd 1.VII.1913

Mr. Kragerud

Rec'd from Dr. O. Malm, Direktor,
Veterinaer - Laboratories,
Christiania, Norway1 ♂ to Prof. E. Malvoz, Liège
30.V.1929.1 ♂ to E. T. Boardman, Univ. Florida,
Gainesville 30.V.1929.

N

2272

RML

111119

5 ♀ Ixodes ricinus

Cow

Christiania now Oslo (59.55 N,
10.45 E), Norway

Rec'd 1.VII.1913

Mr. Kragerud

Vial label locality disagrees with
catalogue.

Cited: Nuttall (1916: 332).

N

2273

Boophilus australis ♀'s, N's

Cow

Pujehun, N. Sherbro District,
Sierra Leone, West Africa

VI.1913

Rec'd from Major E. D'H Fairtlough
11.VII.1913

N

2273

RML

111120

3 ♀, 2 N Boophilus geigy

Cow

Pujehun (07.21 N, 11.42 W),
Sierra Leone

VI.1913

Rec'd from Major E. D'H Fairtlough
11.VII.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2274 a-i

N 2274 a-i MISSING

Dermacentor venustus

Montana, U.S. America (raised experimentally)

Rec'd. 28.V.1912

Rec'd from Miss M. B. Maver, M.D.,
Pathological Laboratory, Univ. of
Chicago, Illinois, U.S.A.
[Nine slides, lettered a-i;
all stages]

Ticks retained from the collection forwarded for determination by Dr. N. Annandale, Superintendent, Indian Museum, Calcutta, India, 5th July, 1913:-

N 2275

N 2275

RML 111121

Aponomma gervaisi var. lucasi
♂'s, ♀'s, N's

9 ♂, 6 ♀, 3 N Aponomma varanensis

Naia tripudiansNaja naja

Zoological Gardens, Calcutta, India

Zoological Gardens, Calcutta
(22.32 N, 88.22 E), India

28.II.1913

28.II.1913

Dr. N. Annandale

[Ind. Mus. $\frac{1789}{17}$]

1 ♂, 1 ♀ to Dr. S. Hadwen, Brit.
Columbia, Canada 10.X.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2276

Aponomma gervaisi var. lucasi
♂'s, ♀'s

Varanus salvator

Zoological Gardens, Calcutta, India

6.II.1913

[Ind. Mus. $\frac{1791}{17}$]

N 2276

RML 111122

1 ♂, 4 ♀ Aponomma varanensis

Varanus salvator

Zoological Gardens, Calcutta
(22.32 N, 88.22 E), India

6.II.1913

Dr. N. Annandale

N 2277

Rhipicephalus sanguineus ♂'s, ♀'s

Dog

Purnlia, Chota Nagpur, India

10.IV.1913

[Ind. Mus. $\frac{1794}{17}$]

N 2277

RML 111123

3 ♂, 5 ♀ Rhipicephalus sanguineus

Dog

Purnlia, (23.20 N, 86.22 E) India

10.IV.1913

Dr. N. Annandale

N 2278

Boophilus annulatus 1 ♂, ♀'s

Horse, carriage

Kefi Kenna, Galilee, Palestine

12.X.1912

N. Annandale

[Ind. Mus. $\frac{NA}{17}$]

N 2278 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 2279

N 2279

RML 111124

Argas reflexus 2 adults1 ♂, 1 N Argas reflexus group

Host ?

Host ?

Girgaon, Bombay Presidency

Girgaon (30.20 N, 80.11 E), India

1913

1913

[Ind. Mus. $\frac{\text{S.P.A.}}{19}$]

Seven tubes of ticks received from Dr. J. Jejament, Veterinarian, Institut Pasteur Marocain, Tangiers, North Africa, 18 July, 1913:-

N 2280

N 2280

RML 111125

Rhipicephalus sanguineus ♂'s, ♀'s19 ♂, 6 ♀ Rhipicephalus sanguineus

Dog

Dog

Tangiers, Morocco

Tangier (35.48 N, 05.48 W), Morocco

IV.1913

IV.1913

Dr. J. Jejament

(Good specimens!) Jejament writes that ticks are very common on horses, cattle & dogs; almost all animals infested.

N 2281

N 2281

RML 111126

Rhipicephalus sanguineus ♂'s, ♀'s3 ♂, 4 ♀ Rhipicephalus sanguineus

Dog

Dog

Tangiers, Morocco

Tangier (35.48 N, 05.48 W), Morocco

16.IV.1913

16.IV.1913

Dr. J. Jejament

ORIGINAL DETERMINATIONCURRENT STATUS

N	2282	N	2282
		RML	111127
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		6 ♂, 6 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Tangiers, Morocco		Tangier (35.48 N, 05.48 W), Morocco
	20.V.1913		20.V.1913
			Dr. J. Jejament
N	2283	N	2283
		RML	111128
	<u>Rhipicephalus sanguineus</u> ♂', ♀'s		10 ♂, 24 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	VI.1913		VI.1913
			Dr. J. Jejament
	(Very fine specimens!)		Vial label with Nuttall 2284 but undoubtedly it refers to this collection.
N	2284, a, b	N	2284, a
		RML	111129
	(2284) <u>Hyalomma aegyptium</u> ♂, ♀'s		(2284) 1 ♂, 7 ♀ <u>Hyalomma anatolicum excavatum</u>
	(a) <u>Rhipicephalus bursa</u> ♀'s		(a) 8 ♀ <u>Rhipicephalus bursa</u>
	(b) <u>Boophilus</u> sp. ♀'s		(b) MISSING
	Cows		Cows
	Tangiers, Morocco		Tangier (35.48 N, 05.48 W), Morocco
	IV-V.1913		IV-V.1913
			Dr. J. Jejament

ORIGINAL DETERMINATIONCURRENT STATUS

N 2285, a, b

N 2285, a, b

RML 111130

(2285) Boophilus annulatus ♀'s
 (a) Rhipicephalus sanguineus ♀'s
 (b) Hyalomma aegyptium ♀'s

(2285) 3 ♀ Boophilus annulatus
 (a) 13 ♀ Rhipicephalus sanguineus
 (b) 2 ♀ Hyalomma anatolicum excavatum

Cows

Cows

Tangiers, Morocco

Tangier (35.48 N, 05.48 W), Morocco

VI-VII-1913

VI-VII.1913

Dr. J. Jejament

2285a - Tentative ID

N 2286, a

N 2286, a

RML 66591

(2286) Rhipicephalus bursa ♂'s, ♀'s
 (a) Hyalomma aegyptium ♂'s, ♀'s

(2286) 17 ♂, 14 ♀ Rhipicephalus bursa
 (a) 9 ♂ Hyalomma marginatum

Horses

Horses

Tangiers, Morocco

Tangier (35.48 N, 05.48 W), Morocco

VII.1913

VII.1913

Dr. J. Jejament

1 ♀ R. bursa with an intact
 spermatophore is in a separate vial.

Collection of ticks received for determination from the Chief Veterinary Surgeon (Dr. J. B. Botelho) Repartição de Agricultura, Seccas de Veterinaria, Lourenço Marques, Portuguese East Africa, 8 July 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2287	N	2287
		RML	111131
	<u>Rhipicephalus falcatus</u> ♀'s		2 ♀ <u>Rhipicephalus senegalensis</u> 3 ♀ <u>Rhipicephalus compositus</u>
	Pig		Pig
	Magul		Either Magul (22.41 S, 35.11 E) or (25.03 S, 33.01 E), Mozambique
	I.1913		I.1913
N	2288, a-c	N	2288a, c
		RML	111132
	(2288) <u>Amblyomma hebraeum</u> ♂'s		(2288) MISSING
	(a) <u>Boophilus australis</u> ♀'s		(a) 3 ♀ <u>Boophilus microplus</u>
	(b) <u>Rhipicephalus evertsi</u> 1 ♂		(b) MISSING
	(c) <u>Rhipicephalus appendiculatus</u> 1 ♂		(c) 2 ♂ <u>Rhipicephalus appendiculatus</u>
	Goat		Goat
	Bilene		Concelho do Bilene (25.10 S, 33.10 E), Mozambique
	III.1913		III.1913
N	2289, a	N	2289a
		RML	111133
	(2289) <u>Amblyomma hebraeum</u> ♂'s, ♀'s		(2289) MISSING
	(a) <u>Boophilus australis</u>		(a) 2 ♀ <u>Boophilus microplus</u>
	Ox		Ox
	Bilene		Concelho do Bilene (25.10 S, 33.10 E), Mozambique
	III.1913		III.1913

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2290, a	N	2290a
		RML	111134
	(2290) <u>Amblyomma hebraeum</u> ♂'s, ♀'s		(2290) MISSING
	(a) <u>Boophilus australis</u> ♀'s		(a) 4 ♀ <u>Boophilus microplus</u>
	Ox		Ox
	Bilene		Concelho do Bilene (25.10 S, 33.10 E), Mozambique
	III.1913		III.1913
N	2291, a, b	N	2291, a, b
		RML	111135
	(2291) <u>Boophilus australis</u> 1 ♀		(2291) 3 ♂ <u>Boophilus microplus</u>
	(a) <u>Amblyomma hebraeum</u> ♂, ♀		(a) 1 ♂, 1 ♀ <u>Amblyomma hebraeum</u>
	(b) <u>Rhipicephalus appendiculatus</u> ♂'s		(b) 3 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u>
	Ox		Ox
	Bilene		Concelho do Bilene (25.10 S, 33.10 E), Mozambique
	III.1913		III.1913
			(2291a) cited: Robinson (1926: 107).
N	2292, a	N	2292a
		RML	111136
	(2292) <u>Amblyomma hebraeum</u> ♂'s, ♀'s		(2292) MISSING
	(a) <u>Boophilus australis</u> ♀'s & eggs		(a) 2 ♀, many eggs <u>Boophilus microplus</u>
	Ox		Ox
	Bilene		Concelho do Bilene (25.10 S, 33.10 E), Mozambique
	III.1913		III.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2293

Amblyomma hebraeum ♂

Ox

Guija

IV.1913

N 2293

RML 111137

17 ♂ Amblyomma hebraeum

Ox

Guija (23.50 S, 34.57 E), Mozambique

IV.1913

Cited: Robinson (1926: 107).

N 2294

Boophilus australis 2 ♀ & eggs

Ox

Guija

IV.1913

N 2294

RML 111138

2 ♀, many eggs Boophilus microplus

Ox

Guija (23.50 S, 34.57 E), Mozambique

IV.1913

N 2295

Amblyomma hebraeum ♂'s, 1 ♀

Ox

Guija

IV.1913

N 2295

RML 111139

3 ♂ Amblyomma hebraeum

Ox

Guija (23.50 S, 34.57 E), Mozambique

IV.1913

Cited: Robinson (1926: 107).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2296	N	2296
		RML	111140
	<u>Amblyomma hebraeum</u> ♂'s		3 ♂ <u>Amblyomma hebraeum</u>
	Ox		Ox
	Guija		Guija (23.50 S, 34.57 E), Mozambique
	IV.1913		IV.1913
			Cited: Robinson (1926: 107).
N	2297, a	N	2297a
		RML	111141
	(2297) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(2297) MISSING
	(a) <u>Rhipicephalus simus</u> ♀'s		(a) 4 ♀ <u>Rhipicephalus simus</u>
	Goats		Goats
	Marlana		Marlana, Mozambique (locality not verified)
	II.1913		II.1913
N	2298, a, b	N	2298a, b
		RML	111142
	(2298) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(2298) MISSING
	(a) <u>Amblyomma hebraeum</u> 2 ♂, 1 ♀, N's		(a) 2 ♂, 1 ♀, 2 N <u>Amblyomma hebraeum</u>
	(b) <u>Rhipicephalus appendiculatus</u> 1 ♀		(b) 1 ♀ <u>Rhipicephalus appendiculatus</u>
	Donkey		Donkey
	Marlana		Marlana, Mozambique (locality not verified)
	II.1913		II.1913
			(2298a) cited: Robinson (1926: 107).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2299

N 2299

RML 111143

Rhipicephalus maculatus ♂'s, ♀'s5 ♂, 1 ♀ Rhipicephalus maculatus

Pig

Pig

Marlana

Marlana, Mozambique (locality not verified)

II.1913

II.1913

N 2300, a

N 2300, a MISSING

(2300) Amblyomma hebraeum ♂, ♀'s(a) Rhipicephalus evertsi 1 ♂, ♀'s

Ox

Marlana, Portuguese East Africa

II.1913

Given to D. S. MacLagan 14.X.1938

ORIGINAL DETERMINATIONCURRENT STATUS

N	2301, a, b	N	2301b
		RML	111144
	(2301) <u>Amblyomma hebraeum</u> ♂'s, ♀'s		(2301) MISSING
	(a) <u>Rhipicephalus evertsi</u> ♂, ♀'s		(a) MISSING
	(b) <u>Boophilus australis</u> ♀'s		(b) 3 ♀ <u>Boophilus microplus</u>
	Ox		Ox
	Marlana		Marlana, Mozambique (locality not verified)
	II.1913		II.1913
N	2302, a	N	2302
		RML	111145
	(2302) <u>Amblyomma hebraeum</u> ♂'s, ♀'s		(2302) 3 ♂, 2 ♀ <u>Amblyomma hebraeum</u>
	(a) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(a) MISSING
	Ox		Ox
	Marlana		Marlana, Mozambique (locality not verified)
	II.1913		II.1913
			(2302) Cited: Robinson (1926: 107).
N	2303, a, b	N	2303, a
		RML	111146
	(2303) <u>Boophilus australis</u> ♂'s, ♀'s		(2303) 2 ♂, * ♀, 2 N <u>Boophilus microplus</u>
	(a) <u>Rhipicephalus appendiculatus</u> ♂, ♀'s		(a) 2 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u>
	(b) <u>Rhipicephalus evertsi</u> 1 ♂		(b) MISSING
	Horse		Horse
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2304, a, b	N	2304a
		RML	111147
	(2304) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(2304) MISSING
	(a) <u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		(a) 4 ♂, 4 ♀ <u>Rhipicephalus</u> <u>appendiculatus</u>
	(b) <u>Amblyomma hebraeum</u> ♂, ♀		(b) MISSING
	Horse		Horse
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913
N	2305	N	2305
		RML	111148
	<u>Boophilus australis</u> ♀'s		24 ♀, 1 N <u>Boophilus microplus</u>
	Ox		Ox
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913
N	2306	N	2306
		RML	111149
	<u>Boophilus australis</u> ♀		1 ♂, 19 ♀ <u>Boophilus microplus</u>
	Ox		Ox
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2307	N	2307 MISSING
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		
	Sheep		
	Namahacha, Portuguese East Africa		
	II.1913		
N	2308, a, b	N	2308, a, b
		RML	111150
	(2308) <u>Boophilus australis</u> ♂'s, ♀'s		(2308) 19 ♂, 36 ♀, 12 N <u>Boophilus</u>
	(a) <u>Rhipicephalus appendiculatus</u>		<u>microplus</u>
	♂'s, ♀		(a) 2 ♂, 1 ♀ <u>Rhipicephalus</u>
	(b) <u>Amblyomma hebraeum</u> ♂'s		<u>appendiculatus</u>
	Ox		(b) 3 ♂ <u>Amblyomma hebraeum</u>
	Namahacha		Ox
	II.1913		Namaacha (25.58 S, 32.01 E), Mozambique
			II.1913
			(2308b) Cited: Robinson (1926: 107).
N	2309, a, b	N	2309a, b
		RML	111151
	(2309) <u>Boophilus australis</u> ♀'s		(2309) MISSING
	(a) <u>Amblyomma hebraeum</u> ♂'s		(a) 2 ♂ <u>Amblyomma hebraeum</u>
	(b) <u>Rhipicephalus appendiculatus</u> ♂'s		(b) 2 ♂ <u>Rhipicephalus appendiculatus</u>
	Ox		Ox
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913
			(2309a) Cited: Robinson (1926: 107).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2310, a, b	N	2310, a, b
		RML	111152
	(2310) <u>Rhipicephalus simus</u> ♂'s, ♀'s		(2310) 4 ♂, 6 ♀ <u>Rhipicephalus simus</u>
	(a) <u>Amblyomma hebraeum</u> ♂'s, ♀, N		(a) 3 ♂, 1 N <u>Amblyomma hebraeum</u>
	(b) <u>Haemaphysalis leachi</u> ♂, ♀		(b) 2 ♂, 1 N <u>Haemaphysalis leachi</u>
	Dog		Dog
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913
	.		(2310a) Cited: Robinson (1926: 107).
N	2311, a, b	N	2311, a
		RML	111153
	(2311) <u>Boophilus australis</u> ♀'s		(2311) 7 ♀ <u>Boophilus microplus</u>
	(a) <u>Amblyomma hebraeum</u> ♂'s, ♀'s		(a) 4 ♂, 1 ♀ <u>Amblyomma hebraeum</u>
	(b) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(b) MISSING
	Ox		Ox
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913
			(2311a) Cited: Robinson (1926: 197).
N	2312, a, b	N	2312, a, b
		RML	111154
	(2312) <u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		(2312) 15 ♂, 5 ♀ <u>Rhipicephalus</u> <u>appendiculatus</u>
	(a) <u>Amblyomma hebraeum</u> ♂, ♀		(a) 1 ♂, 1 ♀ <u>Amblyomma hebraeum</u>
	(b) <u>Boophilus australis</u> ♂, ♀'s, N's		(b) 1 ♂, 10 ♀ <u>Boophilus decoloratus</u>
	Horse		Horse
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913
			(2312a) Cited: Robinson (1926: 107).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2313, a, b	N	2313, b
		RML	111155
	(2313) <u>Boophilus australis</u> ♂'s, ♀'s		(2313) 2 ♂, 7 ♀ <u>Boophilus microplus</u>
	(a) <u>Amblyomma hebraeum</u> ♂'s, eggs		(a) MISSING
	(b) <u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		(b) 1 ♂, 4 ♀ <u>Rhipicephalus appendiculatus</u>
	Ox		Ox
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913
N	2314	N	2314
		RML	111156
	<u>Boophilus australis</u> ♀'s & eggs		15 ♀, eggs <u>Boophilus microplus</u>
	Ox		Ox
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913
N	2315	N	2315
		RML	111157
	<u>Boophilus australis</u> ♀'s & eggs		1 ♂, 14 ♀, eggs <u>Boophilus microplus</u>
	Ox		Ox
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2316, a-c

N 2316, a, c

RML 111158

(2316) Boophilus australis ♀'s & eggs
 (a) Amblyomma hebraeum ♂'s (very bad)
 (b) Rhipicephalus evertsi ♂'s, ♀'s
 (c) Rhipicephalus appendiculatus
 ♂'s, ♀'s

(2316) 5 ♀, eggs Boophilus microplus
 (a) 8 ♂ Amblyomma hebraeum
 (b) MISSING
 (c) 6 ♂, 4 ♀ Rhipicephalus
appendiculatus

Sheep

Sheep

Namahacha

Namaacha (25.58 S, 32.01 E),
Mozambique

III.1913

III.1913

(2316a) 1 ♂, 1 ♀ to J. de Meza,
 Zomba, Nyasaland 19.II.1916

(2316a) Cited: Robinson (1926, 107).

N 2317

RML 111159

12 ♀ Boophilus microplus

Ox

Namaacha (25.58 S, 32.01 E),
Mozambique

II.1913

This tick collection, found
 24.V.1978, and belonging to the
 series sent by Dr. Botelho for
 determination, was never entered
 in Professor Nuttall's catalogue.

ORIGINAL DETERMINATION

N 2317

Amblyomma nodosum 1 ♀

"Found beneath a cage recently occupied by a 3-toed sloth, Bradypus"

Ancon, Canal Zone, Panama

19.IV.1913

Rec'd from Dr. S. T. Darling
22.VII.1913

Note: wants report; fully gorged it measured 19 X 13 mm by 9 mm thick, dropped off 19.IV, began to oviposit 7.V, stopped laying 31.V, she deposited an enormous number of eggs - "the largest ♀ I have ever seen." Letter destroyed G.H.F.N.

N 2318, a-c

(2318) Rhipicephalus pulchellus
♂'s, ♀'s

(a) Haemaphysalis leachi ♀'s(b) Boophilus australis ♀'s(c) Amblyomma tholloni ♀'s & N's

Dog and mules

Dire Daoua, Ethiopia, Abyssinia,
E. Africa

28.V.1913

Rec'd from M. Pellerin, 14.VII.1913

CURRENT STATUS

N 2317

RML 111160

1 ♀ Amblyomma nodosum

Found beneath a cage recently occupied by Bradypus infuscatus

Ancon (08.58 N, 79.33 W), Panama

19.IV.1913

Rec'd from Dr. S. T. Darling,
22.VII.1913

Amblyomma nodosum is exclusively a parasite of New World anteaters. It probably did not feed on a sloth.

Cited: Robinson (1926: 199).

N 2318, a-c

RML 92723

(2318) 1 ♂, 7 ♀ Rhipicephalus pulchellus

(a) 8 ♀ Haemaphysalis leachi(b) 3 ♀ Boophilus microplus(c) 1 N Amblyomma variegatum(c) 1 ♀ Amblyomma tholloni

Dog and mules

Diredawa (09.35 N, 41.52 E),
Ethiopia

28.V.1913

One ♀ H. leachi is now in the NAMRU-3 tick collection, Cairo, Egypt.

The Amblyomma tholloni identification is tentative. This is not good host or locality information for A. tholloni. The legs are missing so the banding cannot be checked but I do not believe it to be A. eburneum.

Two tubes of ticks received from L. C. Heath, Esq., Mwengwa, Mumbwa,
Via Broken Hill, N. Rhodesia, 28 July, 1913:-

ORIGINAL DETERMINATION

CURRENT STATUS

N	2319, a	N	2319, a MISSING
	(2319) <u>Hyalomma aegyptium</u> ♂'s, ♀		
	(a) <u>Rhipicephalus evertsi</u> 1 ♂		
	Burchell's zebras		
	Near Mwengwa, N. Rhodesia		
	V.1913		
N	2320	N	2320
		RML	111161
	<u>Rhipicephalus</u> sp. nymph		1 N <u>Rhipicephalus</u> sp.
	Lichtenstein's hartebeeste		<u>Alcelaphus lichtensteini</u>
	Near Mwengwa, N. Rhodesia		Near Mwengwa (15.17 S, 25.59 E), Zambia
	21.VI.1913		
	Ticks received from F. C. Bishopp, Esq., Dallas, Texas, U.S. America, 30 July, 1913:-		
N	2321	N	2321
		RML	111162
	<u>Haemaphysalis leporis-palustris</u> (unfed larvae)		+500 L <u>Haemaphysalis leporispalustris</u>
	Off ?		<u>Lepus californicus</u>
	Utopia, Texas		Utopia (29.37 N, 99.32 W), Texas, USA
	1912		11.IX.1910
	"2039"		Host and date information taken from Bishopp accession card 2039 now in RML.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2322

Haemaphysalis leporis-palustris
(unfed larvae)

Host ?

Refugio, Texas

1913

"2136"
[7 larvae mounted in balsam on
2 slides]

N 2323

Haemaphysalis leporis-palustris
(gorged larvae)

Host ?

Texas

1913

"No no."

N 2322

RML 111163

+200 L Haemaphysalis
leporispalustrisLepus californicusRefugio (28.18 N, 97.17 W),
Texas, U.S.A.

2.II.1911

C. T. Atkinson

Slides missing.
Host, date, and collector
information taken from Bishopp
accession card 2136 now in RML.

N 2323

RML 111164

17 L Haemaphysalis leporispalustris

Host?

Texas, U.S.A.

1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2324

Haemaphysalis leporis-palustris
(unfed nymphs)

Host ?

Refugio, Texas

1913

"2136"
[a N mounted in balsam on slide]

N 2324

RML 111163

21 N Haemaphysalis leporispalustris

Lepus californicus

Refugio (28.18 N, 97.17 W),
Texas, U.S.A.

2.II.1911

C. T. Atkinson

Slide missing

See note under 2322.

Collection of ticks received from Dr. J. Y. Wood, Kaballa, Koinadugu District, Sierra Leone Protectorate, West Africa, 29 July, 1913:-

N 2325, a

(2325) Rhipicephalus lunulatus 1 ♂
(a) Boophilus australis

Goats

Dunkiawallia, Sierra Leone

28.VI.1913

N 2325, a

RML 111165

(2325) 1 ♂ Rhipicephalus lunulatus
(a) 10 ♀ Boophilus geigy

Goats

Dunkiawallia, Sierra Leone
(locality not verified)

28.VI.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2326

Amblyomma marmoreum 1 ♀

Tortoise from bush

Ninkintumania, Sierra Leone

28.VI.1913

N 2326

RML 111166

1 ♀ Amblyomma nuttalli

Tortoise from bush

Ninkintumania, Sierra Leone
(locality not verified)

28.VI.1913

Cited: Hoogstraal (1954b: 275);
Theiler & Salisbury (1959: 115).

N 2327

Rhipicephalus lunulatus ♀'s

"Self" (in bush)

Near Yaria, Sierra Leone

16.VI.1913

N 2327

RML 111167

2 ♀ Rhipicephalus senegalensisHomo sapiensNear Yaria, perhaps Yaraia
(08.56 N, 11.08 W), Sierra Leone

16.VI.1913

Dr. J. Y. Wood

N 2328

Haemaphysalis leachi ♀'s

Dogs

Dunkiawallia, Sierra Leone

28.VI.1913

N 2328

RML 113746

2 ♀ Haemaphysalis leachi

Dogs

Dunkiawallia, Sierra Leone
(locality not verified)

28.VI.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2329, a, b

(2329) Amblyomma variegatum ♀
 (a) Rhipicephalus lunulatus ♂'s, ♀'s
 (b) Boophilus australis

Sheep

Firawa, Sierra Leone

16.VI.1913

N 2330, a

(2330) Amblyomma sp. N's
 (a) Rhipicephalus lunulatus ♀'s

Water-buck

Kamagototo, Sierra Leone

15.VI.1913

Shot by Captain Stanley

N 2329a, b

RML 111168

(2329) MISSING
 (a) 7 ♂, 16 ♀ Rhipicephalus lunulatus
 (b) 28 ♀ Boophilus geigy

Sheep

Firawa, either (09.21 N, 11.18 W)
 or (09.31 N, 10.51 W), Sierra Leone

16.VI.1913

N 2330, a

RML 111169

(2330) 2 N Amblyomma variegatum
 (a) 1 ♀ Rhipicephalus lunulatus

Kobus ellipsiprymnus subsp.

Kamagototo, Sierra Leone
 (locality not verified)

15.VI.1913

Shot by Captain Stanley

The R. lunulatus ♀ is a teratological specimen.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2331, a-c

(2331) Rhipicephalus lunulatus(a) Amblyomma variegatum(b) Boophilus australis(c) Rhipicephalus falcatus

Cows

Ninkintumania, Sierra Leone

27.VI.1913

(2331) 1 ♂, 1 ♀ to J. de Meza
Zomba, Nyasaland 19.II.1916

N 2331, b, c

RML 111170

(2331) 18 ♂, 15 ♀ Rhipicephalus lunulatus

(a) MISSING

(b) 14 ♀ Boophilus geigy(c) 2 ♂ Rhipicephalus senegalensis

Cows

Ninkintumania, Sierra Leone
(locality not verified)

27.VI.1913

N 2332, a

(2332) Amblyomma variegatum ♂(a) Rhipicephalus lunulatus

Goats

Bende, Sierra Leone

23.VI.1913

N 2332a

RML 111171

(2332) MISSING

(a) 2 ♂, 3 ♀ Rhipicephalus lunulatus

Goats

Bende (08.24 N, 10.19 W),
Sierra Leone

23.VI.1913

N 2333, a, b

(2333) Amblyomma splendidum(a) Rhipicephalus lunulatus(b) Rhipicephalus falcatus

Bush-cow

Sierra Leone

VI.1913

R. lunulatus & R. falcatus
merging into one another & females
probably confused.

N 2333, a, b

RML 111172

(2333) 9 ♂ Amblyomma splendidum(a) 176 ♂, 40 ♀ Rhipicephalus lunulatus(a) 3 ♂ Rhipicephalus senegalensis(b) 13 ♂, 1 ♀ Rhipicephalus senegalensis(b) 1 ♂ Rhipicephalus longus

Cow, bush

Sierra Leone

VI.1913

(2333) Cited: Robinson (1926: 125).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2334, a	N	2334, a
		RML	111173
	(2334) <u>Rhipicephalus lunulatus</u>		(2334) 11 ♂, 9 ♀ <u>Rhipicephalus lunulatus</u>
	(a) <u>Amblyomma variegatum</u>		(a) 2 ♂, 1 N <u>Amblyomma variegatum</u>
	Cows		Cows
	Bandakarifa, Sierra Leone		Bandakarafaia (09.16 N, 11.12 W), Sierra Leone
	18.VI.1913		18.VI.1913
N	2335, a, b	N	2335
		RML	111174
	(2335) <u>Rhipicephalus lunulatus</u>		(2335) 20 ♂, 13 ♀ <u>Rhipicephalus lunulatus</u>
	(a) <u>Amblyomma variegatum</u>		(a) MISSING
	(b) <u>Boophilus australis</u>		(b) MISSING
	Cattle		Cattle
	Dunkiawallia, Sierra Leone		Dunkiawallia, Sierra Leone (locality not verified)
	28.VI.1913		28.VI.1913
N	2336, a, b	N	2336, a
		RML	111175
	(2336) <u>Boophilus australis</u>		(2336) 30 ♀ <u>Boophilus geigy</u>
	(a) <u>Rhipicephalus lunulatus</u>		(a) 6 ♂, 8 ♀ <u>Rhipicephalus lunulatus</u>
	(b) <u>Amblyomma variegatum</u>		(b) MISSING
	Cows		Cows
	Kurnbum, Sierra Leone		Kurnbum, Sierra Leone (locality not verified)
	21.VI.1913		21.VI.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2337, a-c

- (2337) Amblyomma splendidum 2 ♂'s
1 ♀
(a) Amblyomma variegatum
(b) Rhipicephalus falcatus
(c) Boophilus australis

Cattle

Ninkintumania, Sierra Leone

26.VI.1913

N 2337, b, c

RML 111176

- (2337) 2 ♂, 1 ♀ Amblyomma splendidum
(a) MISSING
(b) 3 ♂, 6 ♀ Rhipicephalus lunulatus
(b) 27 ♂, 15 ♀ Rhipicephalus senegalensis
(c) 3 ♀ Boophilus geigy

Cattle

Ninkintumania, Sierra Leone
(locality not verified)

26.VI.1913

N 2338, a, b

- (2338) Rhipicephalus falcatus

(a) Rhipicephalus lunulatus
(b) Amblyomma splendidum

Bush-cow

Shot near Ninkintumania,
Sierra Leone

27.VI.1913

(2338b) 1 ♂, 1 ♀ to Dr. S. Hadwen,
Brit. Columbia, Canada 10.X.1913
(2338b) 1 ♂, 1 ♀ to prof. E. Brumpt,
Ecole Médecine, Paris 12.X.1922.

N 2338, a, b

RML 111177

- (2338) 2 ♂ Rhipicephalus longus
(2338) 6 ♂, 3 ♀ Rhipicephalus senegalensis
(2338) 2 ♂, 2 ♀ Rhipicephalus lunulatus
(a) 6 ♂, 4 ♀ Rhipicephalus lunulatus
(b) 33 ♂, 15 ♀ Amblyomma splendidum

Bush-cow

Shot near Ninkintumania, Sierra Leone
(locality not verified)

27.VI.1913

The Rhipicephalus longus collection
was cited by Clifford & Anastos
(1962: 24).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2339	N	2339 MISSING
	<u>Amblyomma variegatum</u>		
	Cows		
	Kurnbum, Sierra Leone		
	21.VI.1913		
N	2340, a, b	N	2340a, b
	(2240) <u>Amblyomma variegatum</u>		(2240) MISSING
	(a) <u>Rhipicephalus simus</u>		(a) 1 ♀ <u>Rhipicephalus senegalensis</u>
	(b) <u>Boophilus australis</u>		(b) 1 ♀ <u>Boophilus geigy</u>
	Cattle		Cattle
	Serakoria, Sierra Leone		Perhaps Serakolia (09.32 N, 11.05 W), Sierra Leone
	24.VI.1913		24.VI.1913
N	2341, a, b	N	2341a, b
	(2341) <u>Amblyomma variegatum</u>		(2341) MISSING
	(a) <u>Rhipicephalus lunulatus</u> ♀'s		(a) 2 ♀ <u>Rhipicephalus lunulatus</u>
	(b) <u>Boophilus australis</u> ♀'s		(b) 2 ♀ <u>Boophilus geigy</u>
	Cattle		Cattle
	Bende, Sierra Leone		Bende (08.24 N, 10.19 W), Sierra Leone
	23.VI.1913		23.VI.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2342, a, b

(2342) Amblyomma variegatum(a) Boophilus australis(b) Rhipicephalus simus

Cattle

Koinadugu, Sierra Leone

11.VI.1913

N 2343, a-c

(2343) Rhipicephalus lunulatus(a) Rhipicephalus falcatus 2 ♂, 1 ♀(b) Boophilus australis(c) Amblyomma variegatum

Cattle

Yeria, Sierra Leone

15.VI.1913

(2343) 1 ♂, 1 ♀ to Dr. S. Hadwen,
Brit. Columbia, Canada 10.X.1913

N 2342a, b

RML 111180

(2342) MISSING

(a) 7 ♀ Boophilus geigy(b) 1 ♀ Rhipicephalus senegalensis

Cattle

Koinadugu (09.32 N, 11.22 W),
Sierra Leone

11.VI.1913

N 2343, a, b

RML 111181

(2343) 56 ♂, 62 ♀ Rhipicephalus
lunulatus(a) 2 ♂, 1 ♀ Rhipicephalus compositus(a) 5 ♂, 8 ♀ Rhipicephalus
senegalensis(b) 10 ♀ Boophilus geigy

(c) MISSING

Cattle

Yeria, Sierra Leone (locality not
verified)

15.VI.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2344, a, b

N 2344 a-c

RML 111182

(2344) Amblyomma variegatum

(2344) MISSING

(a) Rhipicephalus lunulatus(a) 59 ♂, 48 ♀ Rhipicephalus lunulatus(b) Rhipicephalus falcatus(b) 5 ♂, 4 ♀ Rhipicephalus(c) Boophilus australissenegalensis(c) 1 ♂, 28 ♀ Boophilus geigy

Cows

Cows

Firawa, Sierra Leone

Either Firawa (09.21 N, 11.18 W) or
(09.31 N, 10.51 W), Sierra Leone

16.VI.1913

16.VI.1913

The R. lunulatus collection was
incorrectly labelled N2344.

NOTE: Professor Nuttall inadvertently repeated numbers N2327-N2344. To these entries I have added the suffix Z to facilitate separation of the collections.

Five tubes of ticks received from Mr. R. Hancock, "Hadleigh," Mary's Road, Stechford, 2 August, 1913:-

N 2327Z

N 2327Z

RML 111183

Ixodes hexagonus 4 ♀'s4 ♀ Ixodes hexagonus

Stoat

Mustela ermineaLittle Packington, Warwickshire,
EnglandLittle Packington (52.27 N, 01.41 W),
Warwickshire, England

VII.1913

VII.1913

R. Cornish

R. Cornish

Cited: Nuttall (1916; 328).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2328Z	N	2328Z
		RML	111184
	<u>Ixodes hexagonus</u> 5 ♀'s		4 ♀ <u>Ixodes hexagonus</u>
	Stoat		<u>Mustela erminea</u>
	Little Packington, Warwickshire,		Little Packington (52.27 N, 01.41 W), Warwickshire, England
	VII.1913		VII.1913
	R. Cornish		R. Cornish
			Cited: Nuttall (1916: 328).
N	2329Z	N	2329Z
		RML	111185
	<u>Ixodes hexagonus</u> 3 N's		3 N <u>Ixodes hexagonus</u>
	Stoat		<u>Mustela erminea</u>
	Little Packington, Warwickshire, England		Little Packington (52.27 N, 01.41 W), Warwickshire, England
	VII.1913		VII.1913
	R. Cornish		R. Cornish
			Cited: Nuttall (1916: 328).
N	2330Z	N	2330Z
		RML	111186
	<u>Ixodes hexagonus</u> 1 ♀		1 ♀ <u>Ixodes hexagonus</u>
	Ferret		<u>Mustela furo</u>
	Little Packington, Warwickshire, England		Little Packington (52.27 N, 01.41 W), Warwickshire, England
	VII.1913		VII.1913
	R. Cornish		R. Cornish
			Cited: Nuttall (1916: 328).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2331Z	N	2331Z
		RML	111187
	<u>Ixodes hexagonus</u> 2 ♀'s		2 ♀ <u>Ixodes hexagonus</u>
	Rat		Probably <u>Rattus norvegicus</u>
	Little Packington, Warwickshire, England		Little Packington (52.27 N, 01.41 W), Warwickshire, England
	VII.1913		VII.1913
	R. Cornish		R. Cornish
			Cited: Nuttall (1916: 328).

Ticks rec'd from Dr. R. A. Cleveland, Medical Officer of Health, Nicosia, Cyprus Island, Mediterranean Sea, 5 August, 1913:-

N	2332Z	N	2332Z MISSING
	<u>Argas persicus</u>		
	From chicken house		
	Nicosia, Cyprus		
	8.V.1913		
	M. Aziz		
N	2333Z	N	2333Z MISSING
	<u>Hyalomma aegyptium</u> ♂, ♀'s		
	Camel		
	Famagousta, Cyprus		
	24.IV.1913		
	M. Aziz		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2334Z

Rhipicephalus sanguineus ♂, ♀'s

Dog

Nicosia, Cyprus

19.V.1913

M. Aziz

Dog in government house

N 2334Z

RML 111188

1 ♂, 2 ♀ Rhipicephalus sanguineus

Dog

Nicosia (35.10 N, 33.22 E), Cyprus

19.V.1913

Dr. M. A. Cleveland

N 2335Z

Rhipicephalus sanguineus ♂'s, ♀'s

Dog

Nicosia, Cyprus

21.IV.1913

M. Aziz

N 2335Z

RML 111189

2 ♂, 5 ♀ Rhipicephalus sanguineus

Dog

Nicosia (35.10 N, 33.22 E), Cyprus

21.IV.1913

Dr. M. A. Cleveland

This collection also contained
1 ♀ Ctenocephalides canis
(Siphonaptera)

N 2336Z

Rhipicephalus sanguineus ♀'s

Dog

Nicosia, Cyprus

21.IV.1913

M. Aziz

N 2336Z

RML 111190

6 ♀ Rhipicephalus sanguineus

Dog

Nicosia (35.10 N, 33.22 E), Cyprus

21.IV.1913

Dr. M. A. Cleveland

ORIGINAL DETERMINATIONCURRENT STATUS

N	2337Z	N	2337Z
		RML	111191
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		2 ♂, 4 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Nicosia, Cyprus		Nicosia (35.10 N, 33.22 E), Cyprus
	21.IV.1913		21.IV.1913
	M. Aziz		Dr. M. A. Cleveland
			This collection also contained 1 ♀ <u>Ctenocephalides canis</u> (Siphonaptera)
N	2338Z	N	2338Z
		RML	111192
	<u>Rhipicephalus sanguineus</u> N's		1 ♂, 12 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Larnaka, Cyprus		Larnaka (35.18 N, 33.08 E), Cyprus
	23.VI.1913		23.VI.1913
	M. Aziz		Dr. M. A. Cleveland
N	2339Z	N	2339Z
		RML	111193
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀		6 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Papho, Cyprus		Paphos (34.45 N, 32.25 E), Cyprus
	16.VI.1913		16.VI.1913
	M. Aziz		Dr. M. A. Cleveland

ORIGINAL DETERMINATIONCURRENT STATUS

N	2340Z	N	2340Z
		RML	111194
	<u>Rhipicephalus sanguineus</u> N's		7 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Limasol, Cyprus		Limassol (34.40 N, 33.02 E), Cyprus
	22.VI.1913		22.VI.1913
	M. Aziz		Dr. M. A. Cleveland
N	2341Z	N	2341Z
		RML	111195
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀		4 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Papho, Cyprus		Paphos (34.45 N, 32.25 E), Cyprus
	20.VI.1913		20.VI.1913
	M. Aziz		Dr. M. A. Cleveland
N	2342Z	N	2342Z
		RML	111196
	<u>Ornithodoros tholozani</u> (alive)		3 ♂, 3 ♀, 4 N <u>Ornithodoros tholozani</u>
	Quetta, Baluchistan, India		Quetta (30.12 N, 67.00 E), Pakistan
	6.VIII.1913		6.VIII.1913
	Rec'd from Major G.E.F. Stammers, R.A.M.C.		Rec'd from Major G.E.F. Stammers, R.A.M.C.
	[Used for raising experiments] Found dead 12.VIII.1914 ["Collected amongst a host of <u>A. persicus</u> by Major Browse's men. Sent in a bottle with crumpled filter paper"]. Survived just one year unfed in laboratory in Cambridge, at room temperature.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2343Z

Boophilus australis ♀'s

Ox

Shanghai, China

VII.1913

Rec'd from Dr. A. Stanley, Health
Department, Shanghai, 6.VIII.1913

[Native name for these ox ticks
in China: "Yoong"]

Three tubes of ticks received from Dr. L. de Blicck, Veeartsenijkundig
Laboratorium, Departement van Landbouw, Nijverheid en Handel, Buitenzorg,
Java, Dutch E. Indies 6.VIII.1913:-

N 2344Z

Hyalomma aegyptium ♂'s

Cattle, Bengalese

Bengalen, Java, Dutch East Indies

21.VI.1912

N 2345

Boophilus australis ♂'s, ♀'s, N's

Bullock

Deli, Sumatra, Dutch East Indies

21.VI.1913

N 2343Z

RML 111197

10 ♀ Boophilus microplus

Ox

Shanghai (31.14 N, 121.28 E),
Peoples Republic of China

VII.1913

Rec'd from Dr. A. Stanley, Health
Department, Shanghai, 6.VIII.1913

N 2344Z MISSING

N 2345

RML 111198

8 ♂, 10 ♀, 14 N Boophilus microplus

Bullock

Labuhandeli (03.45 N, 98.41 E),
Sumatra, Indonesia

21.VI.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2346	N	2346
		RML	111199
	<u>Boophilus australis</u> ♂'s, ♀'s, N's		4 ♂, 7 ♀, 2 N <u>Boophilus microplus</u>
	Bullock		Bullock
	Deli, Sumatra, Dutch East Indies		Labuhandeli (03.45 N, 98.41 E), Sumatra, Indonesia
	21.VI.1913		21.VI.1913
Ticks received from Major T. W. Rudd, A.V.C., D.V.O., (5th Mhow Division), Station Veterinary Hospital, Mhow, Central Provinces, India, 11 August, 1913:-			
N	2347	N	2347
		RML	111200
	<u>Rhipicephalus sanguineus</u> 2 ♀'s		2 ♀ <u>Rhipicephalus sanguineus</u>
	Foxhound		Dog (Foxhound)
	Mhow, C. P., India		Mhow (22.33 N, 75.46 E), India
	20.VII.1913		20.VII.1913
			Major T. W. Rudd
N	2348	N	2348 MISSING
	<u>Hyalomma aegyptium</u> nymphs		
	Horse (belonging to Colonel Stephen)		
	Mhow, C. P., India		
	19.VII.1913		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2349

N 2349

RML 111201

Rhipicephalus sanguineus ♂'s, ♀'s22 ♂, 20 ♀, 2 N Rhipicephalus sanguineus

Dog (fox terrier)

Dog (fox terrier)

Mhow, C. P., India

Mhow (22.33 N, 75.46 E), India

23.VII.1913

23.VII.1913

Major T. W. Rudd

1 ♂, 1 ♀ to Dr. K. F. Meyer, Univ.
California, Berkeley 15.XI.1913Two tubes of ticks retained from the collection sent for determination by
Dr. N. Annandale, Superintendent, Indian Museum, Calcutta, India.

N 2350

N 2350

RML 111202

Rhipicephalus haemaphysaloides
2 ♂'s, 3 ♀'s2 ♂, 6 ♀ Rhipicephalus haemaphysaloides

Off ?

Off ?

Singla (1,500 ft.), Darjiling
DistrictSingla, Darjeeling District, India
(456 m) (locality not verified)

IV.1913

IV.1913

Lord Carmichael's coll.

Lord Carmichael's coll.

[Indian Museum $\frac{CC}{367}$ b]

ORIGINAL DETERMINATIONCURRENT STATUS

N 2351

N 2351

RML 111203

Boophilus australis 2 ♂'s, ♀'s2 ♂, 6 ♀ Boophilus microplus

Off ?

Off ?

Sukna (1,000 ft.), Darjiling
DistrictSukna (26.47 N, 88.22 E), India
(305 m)

IV.1913

IV.1913

Lord Carmichael's coll.

Lord Carmichael's coll.

[Indian Museum $\frac{CC}{370}$]

Five tubes of ticks received from F. Harken, Esq., c/o Mission de Prospection,
Luofu (Rutshuru), Congo Belge (Via Mombasa & Fort Portal), Central Africa,
11 August, 1913:-

N 2352

N 2352

RML 111204

Rhipicephalus appendiculatus ♀'s &
N's1 ♂, 3 ♀, 4 N Rhipicephalus
appendiculatus

Sheep

Sheep

Kimaku, Belgian Congo

Kimaku (00.38 S, 29.08 E), Zaire
(1280 m)

23.V.1913

23.V.1913

[Note: Kimaka Lat. 0°38 S,
Long. 29°08 E. Alt. 4,200 ft.]

I could not verify this locality
in any Zaire gazetteer so have
relied on the coordinates given by
Nuttall

ORIGINAL DETERMINATIONCURRENT STATUS

N 2353

Ixodes rarus ♀'s

Goat

Beeba-Shero, Belgian Congo

23.V.1913

[Note: Beeba-Shero Lat. 0°45 S,
Long. 29°31 E. Alt. 5,600 ft.]

N 2354, a

(2354) Haemaphysalis pammata ♂, N, L

(a) Rhipicephalus appendiculatus
♂, ♀

Antelope (light-brown with
white spots)

Kimaka, Belgian Congo

15.V.1913

N 2353

RML 111205

2 ♀ Ixodes cumulatimpunctatus

Goat

Beeba-Shero (00.45 S, 29.31 E),
Zaire (1707 m)

23.V.1913

I could not verify this locality
in any Zaire gazetteer so have relied
on the coordinates given by Nuttall.
Nuttall (1916: 331) gave the
locality as Buba-Shero; Arthur &
Burrow (1957: 503).

N 2354, a

RML 90007

(2354) 1 ♀, 1 N, 2 L Haemaphysalis
pammata

(a) 1 ♂, 1 ♀ Rhipicephalus
appendiculatus

Antelope (light-brown with white
spots)

Kimaka (00.38 S, 29.08 E),
Zaire (1280 m)

15.V.1913

See remark under N 2352

ORIGINAL DETERMINATIONCURRENT STATUS

N	2355	N	2355
		RML	111206
	<u>Rhipicephalus appendiculatus</u> ♂, ♀		1 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>
	Sheep		Sheep
	Mahleo, Belgian Congo		Mahleo (00.27 S, 29.12 E), Zaire (1768 m)
	2.VI.1913		2.VI.1913
	[Note: Mahleo Lat 0°27 S, Long. 29°12 E. Alt. 5,800 ft.]		I could not verify this locality in any Zaire gazetteer so have relied on the coordinates given by Nuttall.
N	2356	N	2356
		RML	111207
	<u>Rhipicephalus appendiculatus</u> ♂, N's		3 ♂, 2 N <u>Rhipicephalus appendiculatus</u>
	Sheep		Sheep
	Kimaka, Belgian Congo		Kimaka (00.38 S, 29.08 E), Zaire (1280 m)
	14.V.1913		14.V.1913
			See remark under N 2352
N	2357	N	2357
		RML	111208
	<u>Aponomma gervaisi</u> ♂'s		2 ♂ <u>Aponomma gervaisi</u>
	Bengal Monitor		<u>Varanus bengalensis</u>
	India		India
	8.VIII.1913		8.VIII.1913
	[Z.S. 38]		

Three tubes of ticks received from H. E. Cross, Esq., M.R.C.V.S., B. Sc.,
Camel Specialist, Sohawa, Hjelum District, Punjab, Indian 19 August, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2358	N	2358
		RML	111209
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		4 ♂, 6 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Sohawa, Punjab, India		Sohawa, Pakistan (locality not verified; 3 possible localities in Punjab)
	22.VII.1913		22.VII.1913
N	2359	N	2359 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Goat		
	Sohawa, Punjab, India		
	22.VII.1913		
N	2360	N	2360 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Camel		
	Sohawa, Punjab, India		
	22.VII.1913		

Two tubes of ticks received from L. C. Heath, Esq., Mwengwa, Mumbwa,
N. Rhodesia, 26.VIII.1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2361, a	N	2361a
		RML	111210
	(2361) <u>Amblyomma variegatum</u> ♂'s		(2361) MISSING
	(a) <u>Boophilus australis</u> ♀		(a) 1 ♀ <u>Boophilus decoloratus</u>
	Sable bull		<u>Hippotragus niger</u>
	Shot at Salama (Native District of Baluba District) N. Rhodesia		Shot at Salama (15.10 S, 26.20 E), Native District of Baluba, Namwala District, Zambia
	7.VII.1913		7.VII.1913
N	2362, a	N	2362
		RML	111211
	(2362) <u>Rhipicephalus evertsi</u> ♂, ♀, N		(2362) 2 ♂, 2 ♀, 13 N <u>Rhipicephalus</u> <u>evertsi</u>
	(a) <u>Hyalomma aegyptium</u>		(a) MISSING
	Reed-buck		<u>Redunca arundinum</u>
	Shot at Mangoma (Native District of Baluba District) N. Rhodesia		Shot at Mangoma (14.22 S, 22.02 E), Zambia
	5.VII.1913		5.VII.1913
	Four tubes of ticks received from Dr. Wm. C. Wigan, Mpondas, Fort Johnston, Nyasaland B. C. Africa 26 August, 1913:-		
N	2363	N	2363 MISSING
	<u>Hyalomma aegyptium</u> 1 ♀		
	Found "in saloon of steamer"		
	Monkey Bay, Lake Nyasa, Nyasaland		
	23.V.1913		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2364 N 2364 MISSING

Rhipicephalus sanguineus ♂

Man (European)

Liborna Island, Monkey Bay,
Nyasaland

20.VI.1913

N 2365 N 2365 MISSING

Rhipicephalus sanguineus ♂'s

Wart-hog

Monkey Bay, Lake Nyasa, Nyasaland

V.1913

N 2366 N 2366 MISSING

Haemaphysalis leachi ? ♂

Hyrax

Monkey Bay, Lake Nyasa, Nyasaland

23.V.1913

Hoogstraal (1956b: 169) noted that
this collection was missing

Three tubes of ticks received from Captain A. J. Williams, A.V.C., i/p
Station Veterinary Hospital, Secunderabad, Deccan, India, 26 August 1913:-

N 2367 N 2367 MISSING

Rhipicephalus sanguineus ♂, ♀, N

Dog (animal dying-suspected
Piroplasmosis)

Secunderabad, Deccan, India

20.VII.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2368	N	2368
		RML	111212
	<u>Hyalomma aegyptium</u> ♀'s, N's		5 ♂, 5 ♀, 3 N <u>Hyalomma anatolicum anatolicum</u>
	Horse		Horse
	Secunderabad, Deccan, India		Secunderabad (17.27 N, 78.30 E), India
	22.VII.1913		22.VII.1913
N	2369	N	2369 MISSING
	<u>Hyalomma aegyptium</u> N's		
	Cattle		
	Secunderabad, Deccan, India		
	23.VII.1913		
Collection of ticks received from Richard Hancock, Esq., "Hadleigh" Mary's Road, Stechford 10th June, 1913:-			
N	2370, a, b	N	2370, b
		RML	111213
	(2370) <u>Rhipicephalus pulchellus</u> 2 ♂, 2 ♀		(2370) 2 ♀ <u>Rhipicephalus pulchellus</u>
	(a) <u>Hyalomma aegyptium</u> 1 ♀		(a) MISSING
	(b) <u>Boophilus australis</u> 1♂, 2 ♀		(b) 1 ♂, 2 ♀ <u>Boophilus decoloratus</u>
	Zebra		Zebra
	Africa		Africa
	No other data		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2371	N	2371 MISSING
	<u>Hyalomma aegyptium</u> ♂, ♀		
	Ibex, Nubian		
	Africa		
	No other data		
N	2372, a	N	2372, a
	(2372) <u>Ixodes ricinus</u> 2 ♀'s	RML	111214
	(a) <u>Ixodes canisuga</u> ♀'s & N		(2372) 2 ♀ <u>Ixodes ricinus</u>
	Fox, common		(a) 1 ♀, 2 N <u>Ixodes canisuga</u>
	No other data		<u>Vulpes vulpes</u>
N	2373	N	2373
	<u>Rhipicephalus</u> sp. N's	RML	111215
	Jackal		12 N <u>Rhipicephalus</u> sp.
	No other data		Jackal
N	2374	N	2374
	<u>Ixodes ricinus</u> ♀'s	RML	111216
	English red deer		1 ♂, 3 ♀ <u>Ixodes ricinus</u>
	No other data		<u>Cervus elaphus</u>

ORIGINAL DETERMINATIONCURRENT STATUS

N	2375, a	N	2375
		RML	111217
	(2375) <u>Rhipicephalus pulchellus</u> 1 ♂		(2375) 1 ♂ <u>Rhipicephalus pulchellus</u>
	(a) <u>Rhipicephalus</u> sp. 2 ♀		(a) MISSING
	Burchell's zebra		<u>Equus burchelli</u>
			Africa
	No other data		
	Thrown away, no good 13.I.1915. N.		
N	2376, a	N	2376, a
		RML	111218
	(2376) <u>Ixodes ricinus</u> 2 ♀'s		(2376) 2 ♀ <u>Ixodes ricinus</u>
	(a) <u>Ixodes canisuga</u> 1 ♀		(a) 1 ♀ <u>Ixodes canisuga</u>
	Wild boar		<u>Sus scrofa</u>
	No other data		(2376a) tentative ID
N	2377, a	N	2377, a
		RML	111219
	(2377) <u>Rhipicephalus pulchellus</u> 1 ♀		(2377) 1 ♀ <u>Rhipicephalus pulchellus</u>
	(a) <u>Haemaphysalis leachi</u> 2 N's		(a) 3 N <u>Haemaphysalis leachi</u>
	(mutilated)		
	Rhinoceros		<u>Diceros bicornis</u> or <u>Ceratotherium</u>
			<u>simum</u>
	Africa		Africa
	No other data		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2378	N	2378
	<u>Rhipicephalus pulchellus</u> 2 ♂'s	RML	111220
	Wildebeeste		2 ♂ <u>Rhipicephalus pulchellus</u>
	No other data		<u>Connochaetes taurinus</u>
			Africa
N	2379	N	2379
	<u>Ixodes schillingsi</u> ! 1 ♂, 2 ♀	RML	111221
	Colobus monkey		1 ♂, 2 ♀ <u>Ixodes schillingsi</u>
	Africa		<u>Colobus</u> sp.
	1913		Africa
	No other data		1913
			Cited: Nuttall (1916: 333); Arthur (1957a: 545).
N	2380, a	N	2380, a
	(2380) <u>Ixodes canisuga</u> N's	RML	111222
	(a) <u>Ixodes ricinus</u> 1 ♀		(2380) 3 N <u>Ixodes canisuga</u>
	Scotch red deer		(a) 1 ♀ <u>Ixodes ricinus</u>
	No other data		<u>Cervus elaphus</u>
			Scotland
			(2380a) Cited: Nuttall (1916: 331) who gave Scotland as the locality.
N	2381	N	2381 MISSING
	<u>Aponomma</u> sp. 1 ♀		
	Monitor		
	No other data		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2382, a

N 2382

RML 111223

(2382) Rhipicephalus pulchellus
♂, ♀'s(2382) 1 ♂, 3 ♀ Rhipicephalus pulchellus(a) Hyalomma aegyptium 1 ♀

(a) MISSING

Giraffe

Giraffa camelopardalis

Africa

No other data

N 2383

N 2383 MISSING

Undetermined genus

Striped Hyaena

No other data

N 2384, a

N 2384a

RML 111224

(2384) Hyalomma aegyptium 2 ♂, 2 ♀

(2384) MISSING

(a) Rhipicephalus pulchellus ♂(a) 1 ♂ Rhipicephalus pulchellus

Buffalo

Syncerus caffer

Africa

No other data

ORIGINAL DETERMINATIONCURRENT STATUS

N 2388, a-d

N 2388, a-d

RML 22302, 71478, 71479

(2388) Haemaphysalis spinigera

5 ♂, 2 ♀

(2388) 5 ♂, 3 ♀ Haemaphysalis spinigera (RML 22302)(a) Rhipicephalus haemaphysaloides ♂(a) 1 ♂ Rhipicephalus haemaphysaloides (RML 22302)(b) Haemaphysalis parva(b) 2 ♂, 1 ♀ Haemaphysalis intermedia (RML 71478)(c) Haemaphysalis leachi ♀(b) 5 ♂, 1 ♀ Haemaphysalis turturis (RML 71478)(d) Haemaphysalis parva 1 ♂(c) 1 ♀ Haemaphysalis leachi (RML 22302)(d) 1 ♂ Haemaphysalis intermedia (RML 71479)

Panther

Panther

No other data

2388b ♂'s ♀'s but some specimens very large (C. W. det. 11.I.1915)

The vial label for the 1 ♂ Rhipicephalus haemaphysaloides incorrectly reads N 2388b

N 2389

N 2389

RML 111228

Ornithodoros moubata N1 N Ornithodoros moubata

Wart-hog

Phacochoerus aethiopicusShot near Mwengwa Station,
N. Rhodesia, B.C. AfricaShot near Mwengwa (15.17 S,
25.59 E), Zambia

9.VIII.1913

9.VIII.1913

Rec'd 14.IX.1913 from L. C. Heath

Rec'd 14.IX.1913 from L. C. Heath

Note: The only tick found on the
wart-hog by Mr. Eminson who shot
it, writes L. C. Heath, his
letter destroyed. N.

Cited: Hoogstraal (1954: 274).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2390	N	2390	MISSING
	<u>Amblyomma variegatum</u> ♂'s, ♀			
	Bullock			
	Yei, Lado Enclave, Sudan			
	VIII.1913			
	Rec'd from Captain H. S. Ranken, R.A.M.C., 12.IX.1913			
N	2391	N	2391	MISSING
	<u>Boophilus annulatus</u> ♂, ♀'s			
	Cattle			
	Texas, U. S. America			
	VIII.1913			
	Rec'd from Lieut. H. S. Michil, U.S.A. Medical Corps, Washington, D.C., 30.VIII.1913			
	Ticks received back from the Imperial Bureau of Entomology, London, S.W. (ex Report No. 28), 16 September, 1913:-			
N	2392	N	2392	
		RML	111229	
	<u>Ornithodoros savignyi</u>		2 ♀, 9 N <u>Ornithodoros savignyi</u>	
	Bulhar, British Somaliland, Africa		Bulhar (10.23 N, 44.25 E), Somalia	
	6.IV.1913			
	[No. 676]			
	[Somali name:- Kudkudeh or Kudkuda]			

ORIGINAL DETERMINATIONCURRENT STATUS

N 2393

Rhipicephalus neavei ♂'s, ♀'s

"Gwapi"

West Nyasa

I.1913

Dr. J. G. Morgan

[No. 679]

N 2393

RML 111230

1 ♂, 2 ♀ Rhipicephalus kochiSylvicapra grimmia

Malawi

I.1913

Dr. J. G. Morgan

N 2394

Rhipicephalus supertritus ♂'s, ♀'s

Wart-hog

Marimba, Nyasaland

VI.1913

Dr. J. G. Morgan

[No. 682a]

N 2394

RML 111231

1 ♂ Rhipicephalus compositus
3 ♂, 2 ♀ Rhipicephalus longus
1 ♂ Rhipicephalus simusPhacochoerus aethiopicusMarimba, Malawi (locality not
verified)

VI.1913

Dr. J. G. Morgan

The R. longus collection was cited
as 2 ♂, 1 ♀ by Santos Dias (1958:
474). Cited as R. supertritus.
(Hoogstraal 1954b: 279).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2395	N	2395
		RML	111232
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		2 ♂, 3 ♀ <u>Rhipicephalus simus</u>
	Dog		Dog
	Sichenya River, Mlanje, Nyasaland		Sichenya River, Mlanje (15.50 S, 35.35 E), Malawi
	XII.1912		XII.1912
	S. A. Neave		S. A. Neave
	[No. 690]		
N	2396	N	2396
		RML	111233
	<u>Rhipicephalus supertritus</u> ♂'s, ♀'s		5 ♂, 5 ♀ <u>Rhipicephalus supertritus</u>
	Buffalo		<u>Syncerus caffer</u>
	Mpenga, Gomba, Uganda		Probably Mpenja (00.10 N, 32.41 E) or (00.14 N, 32.03 E), District of Gomba, Uganda
	19.XII.1912		19.XII.1912
	F. A. Knowles		F. A. Knowles
	[No. 694a]		
	Three tubes of ticks received from Dr. A. Yale Massey, Boma, Belgian Congo, Central Africa, 17 September, 1913:-		
N	2397	N	2397
		RML	111234
	<u>Amblyomma cohaerens</u> ♂'s, ♀'s		3 ♂, 6 ♀ <u>Amblyomma cohaerens</u>
	Wild Buffalo		<u>Syncerus caffer</u>
	Belgian Congo		Zaire
	1913		1913
			Cited: Robinson (1926: 110).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2398

N 2398

RML 111235

Rhipicephalus falcatus ♂'s, ♀'s1 ♂ Rhipicephalus ziemanni4 ♂, 1 ♀ Rhipicephalus cliffordi10 ♂, 6 ♀ Rhipicephalus senegalensis

Dog

Dog

Belgian Congo

Zaire

1913

1913

1 ♂, 1 ♀ to J. de Meza, Zomba,
Nyasaland 19.II.1916

N 2399

N 2399 MISSING

Haemaphysalis leachi 1 ♀

Off ?

Belgian Congo

1913

Ticks received from Dr. Lucius Nicholls, Mile 28, Magadi Railway, British
East Africa, 16 September, 1913:-

N 2400

N 2400 MISSING

Amblyomma variegatum ? N's

Small ground bird

Magadi Railway, Brit. East Africa

VII.1913

ORIGINAL DETERMINATIONCURRENT STATUS

2401

N 2401

RML 111236

Rhipicephalus simus ♀'s2 ♀ Rhipicephalus simus

Lion

Panthera leo

River Kadjiado, Magadi Railway

River Olkejuado (02.27 S, 37.17 E),
Kenya

VIII.1913

VIII.1913

2402

N 2402

RML 111237

Rhipicephalus simus ♂'s2 ♂ Rhipicephalus simus

Lion

Panthera leo

River Kadjiado, Magadi Railway

River Olkejuado (02.27 S, 37.17 E),
Kenya

VIII.1913

VIII.1913

2403, a-c

N 2403, a, b

RML 111238

(2403) Rhipicephalus appendiculatus
♂'s(2403) 2 ♂ Rhipicephalus appendiculatus

- (a) Rhipicephalus simus ♂
- (b) Rhipicephalus pulchellus ♂
- (c) Haemaphysalis leachi ♂

- (a) 1 ♂ Rhipicephalus simus
- (b) 1 ♂ Rhipicephalus pulchellus
- (c) MISSING

Lion

Panthera leo

River Kadjiado, Magadi Railway

River Olkejuado (02.27 S, 37.17 E),
Kenya

VIII.1913

VIII.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2404	N	2404
		RML	111239
	<u>Rhipicephalus appendiculatus</u> ♀'s		4 ♀ <u>Rhipicephalus carnivoralis</u>
	Lion cubs		<u>Panthera leo</u> (cubs)
	Magadi		Magadi (01.54 S, 36.17 E), Kenya
	VIII.1913		VIII.1913
N	2405	N	2405
		RML	111240
	<u>Rhipicephalus evertsi</u> ♂'s, ♀		3 ♂, 1 ♀ <u>Rhipicephalus evertsi</u>
	Zebra		<u>Equus burchelli</u>
	Kadjiado Plains, Magadi		Kadjiado District (02.00 S, 36.45 E) Kenya
	VIII.1913		VIII.1913
N	2406	N	2406
		RML	111241
	<u>Rhipicephalus pulchellus</u> ♀		1 ♀ <u>Rhipicephalus pulchellus</u>
	Zebra		<u>Equus burchelli</u>
	Kadjiado Plains, Magadi		Kadjiado District (02.00 S, 36.45 E), Kenya
	VIII.1913		VIII.1913
N	2407	N	2407 MISSING
	<u>Hyalomma aegyptium</u> ♂'s		
	Zebra		
	Kadjiado Plains, Magadi, B.E. Africa		
	VIII.1913		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2408	N	2408
		RML	111242
	<u>Rhipicephalus pulchellus</u> ♂'s		4 ♂ <u>Rhipicephalus pulchellus</u>
	Zebra		<u>Equus burchelli</u>
	Kadjiado Plains, Magadi		Kadjiado District (02.00 S, 36.45 E), Kenya
	VIII.1913		VIII.1913
N	2409, a	N	2409, a
		RML	111243
	(2409) <u>Rhipicephalus simus</u> ♂		(2409) 1 ♂ <u>Rhipicephalus simus</u>
	(a) <u>Rhipicephalus evertsi</u> ♂		(a) 1 ♂ <u>Rhipicephalus evertsi</u>
	Zebra		<u>Equus burchelli</u>
	Kadjiado Plains, Magadi		Kadjiado District (02.00 S, 36.45 E), Kenya
	VIII.1913		VIII.1913
N	2410	N	2410
		RML	111244
	<u>Rhipicephalus</u> sp. N's		31 N <u>Rhipicephalus</u> sp.
	Ear of hare		<u>Lepus</u> sp.
	Magadi Railway		Magadi Railway, Kenya (locality not verified)
	VIII.1913		VIII.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2411

N 2411

RML 111245

Rhipicephalus neavei ♀'s1 ♀ Rhipicephalus kochi1 ♀ Rhipicephalus punctatus

Impala

Aepyceros melampusMwengwa, Mumbwa, N. Rhodesia,
B. C. AfricaMwengwa (15.17 S, 25.59 E),
Zambia

14.VIII.1913

14.VIII.1913

Rec'd from Mr. L. C. Heath,
23.IX.1913Rec'd from Mr. L. C. Heath,
23.IX.1913

Twenty-nine tubes of ticks received from Dr. João Baptista Botelho, Chief Veterinary Surgeon, Repartição de Agricultura, Seccao de Veterinaria, Lourenco Marques, Portuguese East Africa, 25 September 1913:-

N 2412

N 2412 MISSING

Boophilus decoloratus

Cow

Namahacha, Portuguese East Africa

28.VII.1913

Rec'd from Dr. J. B. Botelho

"32"

ORIGINAL DETERMINATION

N 2413, a

(2413) Boophilus australis
 (a) 1 ♀ Amblyomma hebraeum
 1 ♀ (abnormal)

Cow

Namahacha

28.VII.1913

Rec'd from Dr. J. B. Botelho

"33"

(2413a) det. L.E.R. XII.1914

N 2414

Boophilus australis

Cow

Namahacha

28.VII.1913

Rec'd from Dr. J. B. Botelho

"34"

CURRENT STATUS

N 2413, a

RML 111246

(2413) 60 ♀ Boophilus microplus
 (a) 1 ♀ Amblyomma hebraeum

Cow

Namaacha (25.58 S, 32.01 E),
 Mozambique

28.VII.1913

Rec'd from Dr. J. B. Botelho

(2413a) is in a jar marked "Tick
 Abnormalities"
 (2413a) figured by Robinson
 (1920: 175, 176).

N 2414

RML 111247

4 ♂, 52 ♀ Boophilus microplus

Cow

Namaacha (25.58 S, 32.01 E),
 Mozambique

28.VII.1913

Rec'd from Dr. J. B. Botelho

ORIGINAL DETERMINATIONCURRENT STATUS

N 2415

Boophilus australis

Ox

Namahacha

28.VII.1913

Rec'd from Dr. J. B. Botelho
"35"

N 2416

Boophilus australis

Ox

Namahacha

28.VII.1913

Rec'd from Dr. J. B. Botelho
"36"

N 2417, a, b

(2417) Rhipicephalus evertsi ♂, ♀, N(a) Boophilus australis(b) Amblyomma sp. N's

Ewe

Namahacha

28.VII.1913

Rec'd from Dr. J. B. Botelho
"37"

N 2415

RML 111248

54 ♀ Boophilus microplus

Ox

Namaacha (25.58 S, 32.01 E),
Mozambique

28.VII.1913

Rec'd from Dr. J. B. Botelho

N 2416

RML 111249

5 ♂, 33 ♀ Boophilus microplus

Ox

Namaacha (25.58 S, 32.01 E),
Mozambique

28.VII.1913

Rec'd from Dr. J. B. Botelho

N 2417, a, b

RML 111250

(2417) 10 ♂, 5 ♀, 4 N Rhipicephalus evertsi(a) 16 ♀ Boophilus microplus(b) 6 N Amblyomma sp.

Ewe

Namaacha (25.58 S, 32.01 E),
Mozambique

28.VII.1913

Rec'd from Dr. J. B. Botelho

ORIGINAL DETERMINATIONCURRENT STATUS

N 2418, a, b

(2418) Boophilus australis
 (a) Rhipicephalus evertsi
 (b) Amblyomma hebraeum ♂'s

Ewe

Namahacha

28.VII.1913

Rec'd from Dr. J. B. Botelho

"38"

N 2418, a

RML 111251

(2418) 1 ♂, 39 ♀ Boophilus microplus
 (a) 3 ♂, 2 ♀ Rhipicephalus evertsi
 (b) MISSING

Ewe

Namaacha (25.58 S, 32.01 E),
 Mozambique

28.VII.1913

Rec'd from Dr. J. B. Botelho

N 2419, a, b

(2419) Boophilus australis ♂'s, ♀'s
 (a) Rhipicephalus evertsi
 (b) Amblyomma hebraeum

Horse

Namahacha

28.VII.1913

Rec'd from Dr. J. B. Botelho

"39"

N 2419, a, b

RML 111252

(2419) 6 ♂, 50 ♀ Boophilus microplus
 (a) 1 ♂, 4 ♀ Rhipicephalus evertsi
 (b) 1 ♂ Amblyomma hebraeum

Horse

Namaacha (25.58 S, 32.01 E),
 Mozambique

28.VII.1913

Rec'd from Dr. J. B. Botelho

(2419b) cited: Robinson (1926: 107).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2420, a

(2420) Rhipicephalus evertsi(a) Boophilus australis ♀

Goat

Moamba

9.VIII.1912

Rec'd from Dr. J. B. Botelho

"40"

N 2421, a

(2421) Boophilus australis(a) Amblyomma hebraeum 1 ♂ (abnormal)

Cow

Moamba

8.VIII.1913

Rec'd from Dr. J. B. Botelho

"41"

N 2420, a

RML 111253

(2420) 2 ♂, 2 ♀, 2 N Rhipicephalus evertsi(a) 1 ♂, 3 ♀ Boophilus microplus

Goat

Moamba (25.36 S, 32.15 E),
Mozambique

9.VIII.1912

Rec'd from Dr. J. B. Botelho

N 2421, a

RML 111254

(2421) 1 ♂, 19 ♀ Boophilus microplus(a) 6 ♂ Amblyomma hebraeum

Cow

Moamba (25.36 S, 32.15 E),
Mozambique

8.VIII.1913

Rec'd from Dr. J. B. Botelho

(2421a) cited: Robinson (1926; 107).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2422	N	2422
		RML	105675
	<u>Rhipicephalus evertsi</u>		5 ♂, 2 ♀ <u>Rhipicephalus evertsi</u> 1 ♀ <u>Boophilus microplus</u>
	Goat		Goat
	Moamba		Moamba (25.36 S, 32.15 E), Mozambique
	8.VIII.1913		8.VIII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"42"		
N	2423, a	N	2423
		RML	111255
	(2423) <u>Rhipicephalus evertsi</u> (a) <u>Rhipicephalus pulchellus</u> ♀		(2423) 5 ♂, 2 ♀ <u>Rhipicephalus evertsi</u> (a) MISSING
	Mule		Mule
	Moamba		Moamba (25.36 S, 32.15 E), Mozambique
	9.VIII.1913		9.VIII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"43"		
N	2424	N	2424 MISSING
	<u>Amblyomma hebraeum</u>		
	Ox		
	Namahacha, Portuguese East Africa		
	31.VII.1910		
	Rec'd from Dr. J. B. Botelho		
	"44"		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2425, a	N	2425, a
		RML	111256
	(2425) <u>Haemaphysalis leachi</u> (a) <u>Amblyomma</u> sp. N		(2425) 3 ♀ <u>Haemaphysalis leachi</u> (a) 9 N <u>Amblyomma</u> sp.
	Dog		Dog
	Magude		Magude (25.02 S, 32.40 E), Mozambique
	11.VIII.1913		1.VIII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"45"		
N	2426	N	2426
		RML	105780
	<u>Boophilus australis</u>		1 ♂, 16 ♀ <u>Boophilus microplus</u> 1 ♂ <u>Haemaphysalis leachi</u> group
	Ox		Ox
	Magude		Magude (25.02 S, 32.40 E), Mozambique
	8.VIII.1913		8.VIII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"46"		
N	2427	N	2427
		RML	111257
	<u>Boophilus australis</u> ♀		16 ♀ <u>Boophilus microplus</u>
	Ox		Ox
	Magude		Magude (25.02 S, 32.40 E), Mozambique
	12.VIII.1913		12.VIII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"47"		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2428

Rhipicephalus evertsi

Mare

Infulene

9.VIII.1913

Rec'd from Dr. J. B. Botelho

"48"

N 2429, a

(2429) Boophilus australis ♂, ♀
(a) Amblyomma hebraeum

Cow

Infulene

9.VIII.1913

Rec'd from Dr. J. B. Botelho

"49"

N 2430

Boophilus australis

Cow

Combeze

8.VIII.1913

Rec'd from Dr. J. B. Botelho

"50"

N 2428

RML 111258

1 ♂, 1 ♀ Rhipicephalus evertsi

Mare

Infulene (25.48 S, 32.34 E),
Mozambique

9.VIII.1913

Rec'd from Dr. J. B. Botelho

N 2429

RML 111259

(2429) 6 ♂, 16 ♀ Boophilus microplus
(a) MISSING

Cow

Infulene (25.48 S, 32.34 E),
Mozambique

9.VIII.1913

Rec'd from Dr. J. B. Botelho

N 2430

RML 111260

14 ♂, 14 ♀, 9 N, eggs Boophilus microplus

Cow

Combezi (16.05 S, 34.20 E),
Mozambique

8.VIII.1913

Rec'd from Dr. J. B. Botelho

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2431	N	2431
	<u>Boophilus australis</u>	RML	105781
	Ox		4 ♂, 15 ♀, 1 N, eggs <u>Boophilus microplus</u>
	Macia		1 ♀ <u>Rhipicephalus kochi</u>
	6.VIII.1913		Ox
	Rec'd from Dr. J. B. Botelho		Macia (16.48 S, 37.46 E), Mozambique
	"51"		6.VIII.1913
			Rec'd from Dr. J. B. Botelho
N	2432, a	N	2432a
	(2432) <u>Amblyomma hebraeum</u>	RML	111261
	(a) <u>Rhipicephalus evertsi</u>		(2432) MISSING
	Goat		(a) 4 ♂ <u>Rhipicephalus evertsi</u>
	Incomati		Goat
	15.VIII.1913		Incomati (25.28 S, 32.02 E), Mozambique
	Rec'd from Dr. J. B. Botelho		15.VIII.1913
	"52"		Rec'd from Dr. J. B. Botelho
N	2433	N	2433 MISSING
	<u>Amblyomma hebraeum</u>		
	Cow		
	Incomati, Portuguese East Africa		
	15.VIII.1913		
	Rec'd from Dr. J. B. Botelho		
	"53"		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2434	N	2434	MISSING
	<u>Amblyomma hebraeum</u>			
	Ox			
	Incomati, Portuguese East Africa			
	15.VIII.1913			
	Rec'd from Dr. J. B. Botelho			
	"54"			
	1 ♀ to Prof. D'Arcy Thompson XI.1931			
N	2435	N	2435	MISSING
	<u>Amblyomma hebraeum</u>			
	Cow			
	Incomati, Portuguese East Africa			
	15.VIII.1913			
	Rec'd from Dr. J. B. Botelho			
	"55"			
	1 ♂, 1 ♀ to R. W. Mettam, Weybridge			
	IV.1931.			
	1 ♂, 1 ♀ to H. S. Purchase IV.1931.			
N	2436	N	2436	MISSING
	<u>Amblyomma hebraeum</u> ♂'s, ♀'s			
	Ox			
	Incomati, Portuguese East Africa			
	15.VIII.1913			
	Rec'd from Dr. J. B. Botelho			
	"56"			
	Given to D. S. MacLagan 14/10/38			

ORIGINAL DETERMINATION

N 2437, a

(2437) Rhipicephalus evertsi
(a) Amblyomma hebraeum ♂, N's

Ewe

Incomati

15.VIII.1913

Rec'd from Dr. J. B. Botelho

"57"

N 2438

Rhipicephalus neavei ♂'s, ♀'s

Bush-Buck

Umbeluzi

17.VIII.1913

Rec'd from Dr. J. B. Botelho

"58"

CURRENT STATUS

N 2437, a

RML 111262

(2437) 3 ♂, 2 ♀ Rhipicephalus evertsi
(a) 1 ♂, 4 N Amblyomma hebraeum

Ewe

Incomati (25.28 S, 32.02 E),
Mozambique

15.VIII.1913

Rec'd from Dr. J. B. Botelho

(2437a) cited: Robinson (1926: 107).

N 2438

RML 66623

20 ♂, 11 ♀, 2 N Rhipicephalus punctatus

Tragelaphus scriptus

Umbeluzi River (26.01 S, 32.28 E),
Mozambique

17.VIII.1913

Rec'd from Dr. J. B. Botelho

ORIGINAL DETERMINATIONCURRENT STATUS

N 2439

Amblyomma hebraeum ♂, ♀

Goats

Lourenço Marques

20.VIII.1913

Rec'd from Dr. J. B. Botelho

"59"

N 2439

RML 111263

1 ♂, 1 ♀ Amblyomma hebraeum

Goats

Lourenço Marques (25.58 S,
32.34 E), Mozambique

20.VIII.1913

Rec'd from Dr. J. B. Botelho

Cited: Robinson (1926: 107).

N 2440

Argas persicus larvae

Fowls

Lourenço Marques

20.VIII.1913

Rec'd from Dr. J. B. Botelho

"60"

N 2440

RML 111264

9 L Argas persicus

Fowls

Lourenço Marques (25.58 S,
32.34 E), Mozambique

20.VIII.1913

Rec'd from Dr. J. B. Botelho

ORIGINAL DETERMINATIONCURRENT STATUS

N 2441

Ornithodoros tholozani 4 nymphs

Egyptian camel

Cairo, Egypt

VIII.1913

Rec'd from Dr. F. C. Willcocks,
11.II.1913

[These ticks are known to Bedouin camel dealers as "Dallum" - Camels probably imported from Syria or the Sinai via Khartoum or via Suez Canal]

Note: These ticks "occur amongst the thick hair behind the hump". Wants these lice & Mallophaga det? Frank C. Willcocks
21.X.1913, Post Box 63, Cairo.
Letter destroyed - N.

N 2442

Ornithodoros talaje (3)

From houses

Condoto, Colombia, South America

VIII.1913

Dr. H. E. F. Spurrell

Rec'd from Colonel A. Alcock
(London) 8.X.1913

Note: Said to be common in houses at Condoto, Alcock writes 6.X.1913. He has others of this lot. Letter destroyed. N.

N 2441

RML 111265

4 N Ornithodoros tholozaniCamelus dromedarius

Cairo (30.03 N, 31.15 E), Egypt

VIII.1913

Rec'd from Dr. F. C. Willcocks,
11.II.1913

Willcocks (1922: 429) stated "the camel was in the Gizeh market and may have been an animal recently imported from the Sinai via Kantara."

Cited: Hoogstraal (1956a: 867)
but without Nuttall number.

N 2442

RML 111266

2 ♀ Ornithodoros talaje

From houses

Condoto (05.06 N, 76.37 W), Colombia

VIII.1913

Dr. H. E. F. Spurrell

Three tubes of ticks received from Major T. W. Rudd, A.V.C., D.V.O. 5th Mhow Division, Station Veterinary Hospital, Mhow, Central Provinces, India, 8 October, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2443	N	2443 MISSING
<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s			
Airedale terrier (pup)			
Mhow, India			
17.IX.1913			
Rec'd from Major T. W. Rudd			
N	2444	N	2444
		RML	111267
<u>Boophilus australis</u> ♂'s, ♀'s		2 ♂, 17 ♀ <u>Boophilus microplus</u>	
Cow		Cow	
Gov't Military Dairy Farm, Mhow, India		Gov't Military Dairy Farm, Mhow (22.33 N, 75.46 E), India	
16.IX.1913		16.IX.1913	
Rec'd from Major T. W. Rudd		Rec'd from Major T. W. Rudd	
N	2445	N	2445
		RML	111268
<u>Boophilus australis</u> ♂, ♀'s		1 ♂, 4 ♀ <u>Boophilus microplus</u>	
Cow (No. 222)		Cow (No. 222)	
Gov't Military Dairy Farm, Mhow, India		Gov't Military Dairy Farm, Mhow (22.33 N, 75.46 E), India	
16.IX.1913		16.IX.1913	
Rec'd from Major T. W. Rudd		Rec'd from Major T. W. Rudd	

Four tubes of ticks received from Major F. D. Hunt, A.V.C., Superintendent, Remount Depot, Ahmednagar, Deccan, India, 9 October, 1913:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	2446	N	2446	MISSING
	Hyalomma aegyptium ♂'s, ♀'s			
	Horse			
	Ahmednagar, India			
	28.VIII.1913			
	Rec'd. from Major F. D. Hunt			
N	2447	N	2447	MISSING
	<u>Rhipicephalus sanguineus</u>			
	♂'s, ♀'s, N's			
	Dog			
	Ahmednagar, India			
	28.VIII.1913			
	Rec'd. from Major F. D. Hunt			
N	2448	N	2448	
		RML	111269	
	<u>Argas persicus</u>		18 ♂, 16 ♀, 11 N <u>Argas persicus</u>	
	Fowls		Fowls	
	Ahmednagar, India		Ahmadnagar (19.05 N, 74.44 E), India	
	28.VIII.1913		28.VIII.1913	
	Rec'd. from Major F. D. Hunt		Rec'd. from Major F. D. Hunt	

ORIGINAL DETERMINATIONCURRENT STATUS

N 2449

N 2449 MISSING

Hyalomma aegyptium ♂'s, ♀'s

Cow

Ahmednagar, India

28.VIII.1913

Rec'd. from Major F. D. Hunt

Two tubes of ticks received from L. C. Heath, Esq., Mwengwa, Mumbwa,
N. Rhodesia, B. C. Africa, 8 October, 1913:-

N 2450

N 2450

Boophilus decoloratus ♀1 ♀ Boophilus decoloratus

Hartebeeste

Alcelaphus lichtensteini

Mwengwa, N. Rhodesia

Mwengwa (15.17 S, 25.59 E), Zambia

VIII.1913

VIII.1913

Rec'd. from L. C. Heath

Rec'd. From L. C. Heath

Note: L. C. Heath writes,
31.VIII.1913, that (tick) "larvae
are always to be found in a pocket
immediately beneath the frontal
horn plate of Lichtensteins
Hartebeest. They seem to blacken
when exposed to light." Many
"animals have no ticks at all
just now. Yesterday a wart-hog
& reedbuck with none."
Letter destroyed.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2451

N 2451 MISSING

Rhipicephalus sanguineus N's

Cane rat

Mwengwa, N. Rhodesia

VIII.1913

Rec'd. from L. C. Heath

N 2452

N 2452

RML 111270

Haemaphysalis chordeilis ♀'sFour tubes of Haemaphysalis chordeilis as follows: +300 L;
1 ♂, 1 ♀, 3 N; 29 N; 261 L.

Cattle

Cattle

Manitoba, Canada

Manitoba, Canada

IX.1913

IX.1913

Received from J.R.N. Harrison, Esq.,
Winnipeg, Manitoba, Canada
13.X.1913Received from J.R.N. Harrison, Esq.,
Winnipeg, Manitoba, Canada
13.X.1913[Used for raising experiments]
Figured for book on ticks.Cited: Nuttall (1915: 430);
cited and figured by Nuttall &
Warburton (1915: 373-375).H. chordeilis raised in Cambridge
separated into boxes of adults
N & L eggsThere is also one vial of eggs
in a separate jar containing
eggs of numerous species.

- (a) eggs (put with ova)
- (b) larvae unfed
- (c) larvae gorged
- (d) N's unfed
- (e) N's gorged
- (f) ♂'s, ♀ unfed

ORIGINAL DETERMINATIONCURRENT STATUS

N 2453

Rhipicephalus neavei ♂'s, ♀'s

Bush-buck

Mwengwa, Mumbwa, N. Rhodesia
B. C. Africa

3.IX.1913

Rec'd from L. C. Heath, Esq.,
3.IX.1913

N 2453

RML 111271

4 ♂, 1 ♀ Rhipicephalus kochiTragelaphus scriptusMwengwa (15.17 S, 25.59 E),
Zambia

3.IX.1913

Rec'd from L. C. Heath, Esq.,
3.IX.1913Nuttall cited the collection date
and date of receipt as the same.Three tubes of ticks received from Captain C. A. Murray, A.V.C., Sialkot,
Punjab, India

N 2454

Rhipicephalus sanguineus N's

Dog (Irish terrier)

Sialkot, Punjab, India

IX.1913

Rec'd from Capt. C. A. Murray

N 2454 MISSING

N 2455

Rhipicephalus sanguineus ♂'s, ♀'s

Dog (Irish terrier)

Sialkot, Punjab, India

IX.1913

Rec'd from Capt. C. A. Murray

N 2455

RML 111272

16 ♂, 11 ♀ Rhipicephalus sanguineus

Dog

Sialkot, Pakistan (locality not
verified; 3 possible localities)

IX.1913

Rec'd from Capt. C. A. Murray

ORIGINAL DETERMINATIONCURRENT STATUS

N	2456	N	2456 MISSING
	<u>Hyalomma aegyptium</u> 2 ♀		
	Horse		
	Sialkot, Punjab, India		
	IX.1913		
	Rec'd from Capt. C. A. Murray		
	Ticks received from Dr. W. M. Scott (late of Singapore, F. M. States), Pathological Laboratory, Medical Schools, Cambridge.		
N	2457	N	2457
		RML	111273
	<u>Boophilus australis</u> 1 ♂		1 ♂ <u>Boophilus microplus</u>
	Cattle		Cattle
	Singapore		Singapore (01.17 N, 103.51 E), Republic of Singapore
	III.1913		III.1913
	Rec'd from Dr. W. M. Scott		Rec'd from Dr. W. M. Scott
N	2458	N	2458 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dog		
	Singapore		
	III.1913		
	Rec'd from Dr. W. M. Scott		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2459	N	2459
		RML	111274
	<u>Haemaphysalis bispinosa</u> ♂'s, ♀'s		1 ♂, 6 ♀ <u>Haemaphysalis bispinosa</u>
	Fowls		Fowls
	Singapore		Singapore (01.17 N, 103.51 E), Republic of Singapore
	III.1913		III.1913
	Rec'd from Dr. W. M. Scott		Rec'd from Dr. W. M. Scott
	1 ♂, 1 ♀ to Dr. de Blieck, Java 22.I.1915		Cited: Nuttall & Warburton (1915: 432).
	Six tubes of ticks received from Major R. C. Cochrane, A.V.C., Station Veterinary Hospital, Rawalpindi, Punjab, India, 20 October, 1913:-		
N	2460	N	2460
		RML	111275
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		111 ♂, 34 ♀, 1 N <u>Hyalomma</u> <u>anatolicum anatolicum</u>
			1 ♂ <u>Hyalomma dromedarii</u>
			1 ♂ <u>Hyalomma marginatum isaaci</u>
	Goats		Goats
	Rawalpindi, Punjab, India		Rawalpindi (33.36 N, 73.04 E), Pakistan
	IX.1913		IX.1913
	Rec'd from Major R. C. Cochrane		Rec'd from Major R. C. Cochrane
			This collection also contained 1 ♀ <u>Lipoptena capreoli</u> (Insecta: Hippoboscidae)

ORIGINAL DETERMINATIONCURRENT STATUS

N 2461
Rhipicephalus sanguineus ♂'s, ♀'s
 Dogs
 Rawalpindi, Punjab, India
 IX.1913
 Rec'd from Major R. C. Cochrane

N 2462
Hyalomma aegyptium ♂'s, ♀'s
 Sheep
 Rawalpindi, Punjab, India
 IX.1913
 Rec'd from Major R. C. Cochrane

N 2463
Boophilus australis ♀'s
 Cows
 Rawalpindi, Punjab, India
 IX.1913
 Rec'd from Major R. C. Cochrane

N 2461 MISSING

N 2462
 RML 111276
 69 ♂, 15 ♀, 1 N Hyalomma anatolicum
anatolicum
 1 ♂ Hyalomma marginatum isaaci
 Sheep
 Rawalpindi (33.36 N, 73.04 E),
 Pakistan
 IX.1913
 Rec'd from Major R. C. Cochrane

N 2463
 RML 111277
 32 ♀ Boophilus microplus
 Cows
 Rawalpindi (33.36 N, 73.04 E),
 Pakistan
 IX.1913
 Rec'd from Major R. C. Cochrane

ORIGINAL DETERMINATIONCURRENT STATUS

N 2464
Rhipicephalus sanguineus ♂'s, ♀'s
 Dogs
 Rawalpindi, Punjab, India
 IX.1913
 Rec'd from Major R. C. Cochrane

N 2465
Hyalomma aegyptium ♂'s, ♀'s
 Buffaloes
 Rawalpindi, Punjab, India
 IX.1913
 Rec'd from Major R. C. Cochrane

N 2464 MISSING

N 2465
 RML 66587
 9 ♂, 1 ♀ Hyalomma marginatum isaaci
 2 ♂, 1 ♀ Hyalomma dromedarii
 Buffaloes
 Rawalpindi (33.36 N, 73.04 E),
 Pakistan
 IX.1913
 Rec'd from Major R. C. Cochrane
 The H. m. isaaci collection was
 cited by Kaiser & Hoogstraal
 (1961: 276).

Ticks received from F. Harker, Esq., Kasindi, Congo Belge, Central Africa,
 20 October, 1913:-

N 2466
Aponomma exornatum 2 ♂
 Iguana
 Lake Albert Edward, Belgian Congo
 8.VII.1913
 Rec'd from F. Harker

N 2466
 RML 111278
 2 ♂ Aponomma flavomaculatum
 Iguana
 Lake Albert (01.40 N, 31.00 E),
 Zaire
 8.VII.1913
 Rec'd from F. Harker

ORIGINAL DETERMINATIONCURRENT STATUS

N 2467

Ornithodoros moubata

From native hut

Kamatabe, Belgian Congo

5.VII.1913

Rec'd from F. Harker

[native name = "Kimputu"]

N 2467

RML 111279

1 N Ornithodoros moubata

From native hut

Kamatabe, Zaire (locality not verified)

8.VII.1913

Rec'd from F. Harker

Date from vial label

N 2468

Rhipicephalus sanguineus 1 ♀

Goat

Kamatabe, Belgian Congo

5.VII.1913

Rec'd. from F. Harker

N 2468 MISSING

N 2469

Rhipicephalus sanguineus ♂, ♀

Goats

Bolemo, Belgian Congo

12.VII.1913

Rec'd. from F. Harker

N 2469

RML 111280

1 ♂, 1 ♀ Rhipicephalus sanguineus

Goats

Bolemo (02.25 N, 19.08 E), Zaire

12.VII.1913

Rec'd from F. Harker

Tentative ID

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2470	N	2470 MISSING
	<u>Rhipicephalus sanguineus</u> N (rotten!)		
	Sheep		
	Bolemo, Belgian Congo		
	19.VII.1913		
	Rec'd from F. Harker		
N	2471	N	2471
		RML	111281
	<u>Ornithodoros moubata</u>		2 ♀ <u>Ornithodoros moubata</u>
	From Native hut		From native hut
	E. of Bolemo, Belgian Congo		E. of Bolemo (02.25 N, 19.08 E), Zaire
	26.VII.1913		26.VII.1913
	Rec'd from F. Harker		Rec'd from F. Harker
			Probably <u>O. moubata porcinus</u> . Van der Merwe (1968: 286) cited this collection without Nuttall number and gave the locality as "East of Bolerro."
N	2472	N	2472
		RML	111282
	<u>Rhipicephalus appendiculatus</u> ♀'s		1 ♂, 2 ♀ <u>Rhipicephalus appendiculatus</u>
	Sheep		Sheep
	E. of Bolemo, Belgian Congo		E. of Bolemo (02.25 N, 19.08 E), Zaire
	26.VII.1913		26.VII.1913
	Rec'd from F. Harker		Rec'd from F. Harker

ORIGINAL DETERMINATIONCURRENT STATUS

N	2473	N	2473
		RML	111283
	<u>Rhipicephalus appendiculatus</u> ♂, ♀'s		1 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u>
	Goats		Goats
	Bolemo, Belgian Congo		Bolemo (02.25 N, 19.08 E), Zaire
	26-27.VII.1913		26-27.VII.1913
	Rec'd from F. Harker		Rec'd from F. Harker
N	2474	N	2474 MISSING
	<u>Rhipicephalus sanguineus</u> ♂, ♀		
	Dogs		
	Bolemo, Belgian Congo		
	3.VIII.1913		
	Rec'd from F. Harker		
N	2475	N	2475 MISSING
	<u>Haemaphysalis leachi</u> ♀'s		
	Leopard		
	Kimaka, Belgian Congo		
	4.VIII.1913		
	Rec'd from F. Harker		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2476	N	2476
	<u>Ornithodoros moubata</u>	RML	111284
	From floor of hut		2 ♂, 1 ♀ <u>Ornithodoros moubata</u>
	Kasindi, Belgian Congo		From floor of hut
	1.IX.1913		Either Kasindi (00.03 N, 29.41 E), or (01.39 S, 28.05 E), Zaire
	Rec'd from F. Harker		1.IX.1913
			Rec'd from F. Harker
			Probably <u>O. moubata porcinus</u>
N	2477, a	N	2477, a
	(2477) <u>Rhipicephalus appendiculatus</u>	RML	111285
	(a) <u>Amblyomma variegatum</u> ♂		(2477) 1 ♂, 2 ♀ <u>Rhipicephalus</u> <u>appendiculatus</u>
	Cow		(a) 1 ♂ <u>Amblyomma variegatum</u>
	Kasindi, Belgian Congo		Cow
	1.IX.1913		Either Kasindi (00.03 N, 29.41 E), or (01.39 S, 28.05 E), Zaire
	Rec'd from F. Harker		1.IX.1913
			Rec'd from F. Harker
N	2478	N	2478
	<u>Amblyomma paulopunctatum</u> ♀'s	RML	111286
	Monitor lizard (Local name "Mbambi")		3 ♀ <u>Amblyomma paulopunctatum</u>
	San Salvador, Portuguese Congo, Central Africa		<u>Varanus</u> sp.
	IX.1913		São Salvador do Congo (06.16 S, 14.15 E), Angola
	Rec'd from Dr. Mercier Gamble, 20.X.1913		IX.1913
	L.E.R. det. III.1914		Rec'd from Dr. Mercier Gamble, 20.X.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2479

Amblyomma cajennense ♂, ♀

Off ?

Jamaica, West Indies

1913

Rec'd from Colonel A. Alcock,
F.R.S., London, 22.X.1913

N 2479

RML 111287

3 ♂, 2 ♀ Amblyomma cajennense

Off ?

Jamaica, West Indies

1913

N 2480

Ixodes rarus nymph

Man's arm

Chercher Mts. (8,000 ft.) near
Harar, Abyssinia, E. Africa

XII.1912

Mr. Armbruster

Rec'd from Dr. G. Wherry
(Cambridge) 25.X.1913

N 2480

RML 111288

1 N Ixodes sp.Homo sapiensChercher Mts. (08.55 N, 40.35 E),
near Harar, Ethiopia (2438 m)

XII.1912

Mr. Armbruster

Rec'd from Dr. G. Wherry
(Cambridge) 25.X.1913

Cited: Nuttall (1916: 331).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2481

N 2481

RML 111289

Rhipicephalus simus ♂'s, ♀'s, N's9 ♂, 5 ♀, 38 N Rhipicephalus simpsoni

Cane rat

Thryonomys sp.Mwengwa, Mumbwa, N. Rhodesia,
B. C. Africa

Mwengwa (15.17 S, 25.59 E), Zambia

VIII.1913

VIII.1913

Rec'd from L. C. Heath, Esq.,
28.X.1913Rec'd from L. C. Heath, Esq.,
28.X.1913

[Small & not characteristic]

Twenty-six tubes of ticks received from Dr. John Y. Wood, Kaballa, Koinadugu District, Sierra Leone Protectorate, West Africa, 14 October 1913:-

N 2482, a-c

N 2482a, c

RML 111290

(2482) Rhipicephalus sanguineus
♂'s, ♀'s

(2482) MISSING

(a) Rhipicephalus lunulatus ♂(a) 1 ♂ Rhipicephalus lunulatus(b) Haemaphysalis leachi 1 ♀

(b) MISSING

(c) Boophilus australis(c) 1 ♀ Boophilus geigy

Sheep

Sheep

Kasukura, Sierra Leone

Kasukura, Sierra Leone (locality
not verified)

8.IX.1913

8.IX.1913

Rec'd from Dr. J. Y. Wood

Rec'd from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2483, a	N	2483, a
		RML	111291
	(2483) <u>Dermacentor circumguttatus</u> 4 ♂'s, 1 ♀		(2483) 4 ♂, 1 ♀ <u>Dermacentor circumguttatus</u>
	(a) <u>Amblyomma tholloni</u> ♂'s, ♀'s		(a) 8 ♂, 8 ♀ <u>Amblyomma tholloni</u>
	Elephant		<u>Loxodonta africana</u>
	Ferenkia, Sierra Leone		Ferenkia, Sierra Leone (locality not verified)
	31.VII.1913		31.VII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
			(2483a) cited: Robinson (1926: 252).
N	2484, a	N	2484, a
		RML	111292
	(2484) <u>Boophilus australis</u> ♀'s		(2484) 26 ♀, 1 N <u>Boophilus geigy</u>
	(a) <u>Rhipicephalus lunulatus</u> ♂'s		(a) 1 ♂ <u>Rhipicephalus lunulatus</u>
			(a) 1 ♀ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Kondembia, Sierra Leone		Either Kondembia (09.09 N, 11.13 W), or (09.23 N, 11.34 N), Sierra Leone
	12.IX.1913		12.IX.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2485, a, b	N	2485, b
	(2485) <u>Boophilus australis</u> ♀'s (a) <u>Amblyomma variegatum</u> ♂ (b) <u>Rhipicephalus lunulatus</u> ♀	RML	111293 (2485) 13 ♀ <u>Boophilus geigy</u> (a) MISSING (b) 1 ♀ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Alakalia, Sierra Leone		Alakalia (09.10 N, 11.24 W), Sierra Leone
	22.VIII.1913		22.VIII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2486, a	N	2486a
	(2486) <u>Haemaphysalis leachi</u> 1 ♂, 3 ♀ (a) <u>Rhipicephalus sanguineus</u> ♂, ♀'s, N	RML	111294 (2486) MISSING (a) 2 ♂, 11 ♀, 1 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Fulamanca, Sierra Leone		Fulamanca, Sierra Leone (locality not verified)
	28.VII.1913		28.VII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2487	N	2487
	<u>Rhipicephalus lunulatus</u> ♂	RML	111295 1 ♂ <u>Rhipicephalus lunulatus</u>
	Man		<u>Homo sapiens</u>
	Kamasiki, Sierra Leone		Either Kamasiki (09.10 N, 11.46 W) or (09.20 N, 11.55 W), Sierra Leone
	9.IX.1913		9.IX.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2488, a, b	N	2488, a
		RML	111296
	(2488) <u>Rhipicephalus sanguineus</u> ♀'s & N's		(2488) 1 ♀, 3 N <u>Rhipicephalus sanguineus</u>
	(a) <u>Amblyomma variegatum</u> ♂'s		(a) 3 ♂ <u>Amblyomma variegatum</u>
	(b) <u>Haemaphysalis leachi</u> 1 ♂		(b) MISSING
	Cattle		Cattle
	MananeoIn, Sierra Leone		MananeoIn, Sierra Leone (locality not verified)
	2.VIII.1913		2.VIII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2489	N	2489
		RML	105676
	<u>Rhipicephalus sanguineus</u> ♂'s		8 ♂, 17 ♀ <u>Rhipicephalus sanguineus</u> 1 ♀ <u>Haemaphysalis leachi</u>
	Dog		Dog
	Kamasiki, Sierra Leone		Either Kamasiki (09.10 N, 11.46 W), or (09.20 N, 11.55 W), Sierra Leone
	9.IX.1913		9.IX.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2490, a, b	N	2490a, b
		RML	111297
	(2490) <u>Haemaphysalis leachi</u> ♀		(2490) MISSING
	(a) <u>Rhipicephalus sanguineus</u> ♀		(a) 1 ♀ <u>Rhipicephalus sanguineus</u>
	(b) <u>Boophilus australis</u> ♀		(b) 1 ♀ <u>Boophilus geigy</u>
	Dog		Dog
	Gahnia, Sierra Leone		Gahnia, Sierra Leone (location not verified)
	25.VII.1913		25.VII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N 2491

Boophilus australis ♀'s

Sheep

Katumbo, Sierra Leone

5.IX.1913

Rec'd from Dr. J. Y. Wood

N 2491

RML 111298

32 ♀ Boophilus geigyi

Sheep

Possibly Katumpu (09.30 N, 11.54 W),
Sierra Leone

5.IX.1913

Rec'd from Dr. J. Y. Wood

The vial label for this collection
incorrectly bears the collection
data for N 2492

N 2492, a, b

(2492) Boophilus australis
(a) Haemaphysalis leachi ♀'s
(b) Rhipicephalus lunulatus ♀

Dog

Gaenikora, Sierra Leone

19.VII.1913

Rec'd from Dr. J. Y. Wood

N 2492, b

RML 111299

(2492) 3 ♀ Boophilus geigyi
(a) MISSING
(b) 1 ♀ Rhipicephalus lunulatus

Dog

Gaenikora, Sierra Leone (locality
not verified)

19.VII.1913

Rec'd from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2493, a, b	N	2493, b
		RML	111300
	(2493) <u>Boophilus australis</u> ♀'s		(2493) 1 ♂, 6 ♀ <u>Boophilus geigy</u>
	(a) <u>Amblyomma variegatum</u> ♂'s, ♀'s		(a) MISSING
	(b) <u>Rhipicephalus falcatus</u> ♂'s		(b) 2 ♂ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Ferenkia, Sierra Leone		Ferenkia, Sierra Leone (locality not verified)
	31.VII.1913		31.VII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2494, a, b	N	2494a, b
		RML	111301
	(2494) <u>Amblyomma variegatum</u> ♂'s, ♀		(2494) MISSING
	(a) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s		(a) 10 ♂, 9 ♀ <u>Rhipicephalus senegalensis</u>
	(b) <u>Boophilus australis</u> ♀'s		(b) 26 ♀ <u>Boophilus geigy</u>
	Cattle		Cattle
	Farandugu, Sierra Leone		Farandugu (09.29 N, 11.27 W), Sierra Leone
	17.VIII.1913		17.VIII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2495, a	N	2495, a
		RML	111302
	(2495) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s		(2495) 5 ♂, 7 ♀ <u>Rhipicephalus senegalensis</u>
	(a) <u>Rhipicephalus lunulatus</u> ♀'s		(a) 3 ♀ <u>Rhipicephalus lunulatus</u>
	Cattle		Cattle
	Kumala, Sierra Leone		Kumala (09.04 N, 11.24 W), Sierra Leone
	25.VIII.1913		25.VIII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2496, a	N	2496
	(2496) <u>Rhipicephalus sanguineus</u> ♂'s, ♀'s, N's	RML	111303
	(a) <u>Haemaphysalis leachi</u> ♂'s, ♀'s		(2496) 43 ♂, 60 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs		(a) MISSING
	Yiben, Sierra Leone		Dogs
	11.IX.1913		Yiben (09.19 N, 11.42 W), Sierra Leone
	Rec'd from Dr. J. Y. Wood		11.IX.1913
			Rec'd from Dr. J. Y. Wood
N	2497, a-c	N	2497, b
	(2497) <u>Boophilus australis</u> ♀'s	RML	111304
	(a) <u>Rhipicephalus lunulatus</u> ♂'s, ♀'s		(2497) 36 ♀ <u>Boophilus geigyi</u>
	(b) <u>Rhipicephalus falcatus</u> 2 ♂		(a) MISSING
	(c) <u>Amblyomma variegatum</u> 2 ♀		(b) 2 ♂ <u>Rhipicephalus senegalensis</u>
	Cattle		(c) MISSING
	Kulakunko, Sierra Leone		Cattle
	24.VIII.1913		Kulakunk ^o , Sierra Leone (locality not verified)
	Rec'd from Dr. J. Y. Wood		24.VIII.1913
			Rec'd from Dr. J. Y. Wood
N	2498	N	2498
	<u>Rhipicephalus falcatus</u> 2 ♂, 1 ♀	RML	111305
	Cattle		2 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Konkola, Sierra Leone		Cattle
	15.VIII.1913		Perhaps Konkola (09.01 N, 10.39 W), Sierra Leone
	Rec'd from Dr. J. Y. Wood		15.VIII.1913
			Rec'd from Dr. J. Y. Wood

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2499, a, b	N	2499
		RML	111306
	(2499) <u>Boophilus australis</u> ♀'s		(2499) 10 ♀ <u>Boophilus geigyi</u>
	(a) <u>Amblyomma variegatum</u> ♂'s		(a) MISSING
	(b) <u>Haemaphysalis leachi</u> ♂, ♀		(b) MISSING
	Cattle		Cattle
	Kakonta, Sierra Leone		Kakonta (09.06 N, 11.43 W), Sierra Leone
	6.IX.1913		6.IX.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2500, a	N	2500a
		RML	111307
	(2500) <u>Amblyomma variegatum</u> ♂'s, ♀'s		(2500) MISSING
	(a) <u>Boophilus australis</u> ♀'s		(a) 4 ♀ <u>Boophilus geigyi</u>
	Cattle		Cattle
	Sengunua, Sierra Leone		Sinkunia (09.52 N, 11.26 W), Sierra Leone
	1.VIII.1913		1.VIII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2501, a	N	2501
		RML	111308
	(2501) <u>Boophilus australis</u> ♀'s		(2501) 45 ♀ <u>Boophilus geigyi</u>
	(a) <u>Amblyomma variegatum</u> ♂'s, ♀'s		(2501) 2 ♀ <u>Rhipicephalus lunulatus</u>
			(a) MISSING
	Cattle		Cattle
	Bangka, Sierra Leone		Probably Banka, Sierra Leone (locality not verified; 4 possible localities)
	25.VII.1913		25.VII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N 2502, a

(2502) Rhipicephalus sanguineus
 σ 's, ϕ 's
 (a) Haemaphysalis leachi σ , ϕ 's

Dogs

Kasukura, Sierra Leone

9.IX.1913

Rec'd from Dr. J. Y. Wood

N 2503, a

(2503) Amblyomma variegatum σ 's, ϕ 's
 (a) Boophilus australis ϕ 's

Cattle

Falaka, Sierra Leone

24.IX.1913

Rec'd from Dr. J. Y. Wood

N 2504, a

(2504) Boophilus australis ϕ
 (a) Amblyomma variegatum 2 σ

Cattle

Katumbo, Sierra Leone

2.IX.1913

Rec'd from Dr. J. Y. Wood

N 2502

RML 111309

(2502) 28 σ , 25 ϕ Rhipicephalus sanguineus
 (a) MISSING

Dogs

Kasukura, Sierra Leone (locality not verified)

9.IX.1913

Rec'd from Dr. J. Y. Wood

N 2503, a

RML 111310

(2503) 4 σ , 2 ϕ Amblyomma variegatum
 (a) 3 ϕ Boophilus geigy

Cattle

Falaka, Sierra Leone (locality not verified)

24.IX.1913

Rec'd from Dr. J. Y. Wood

N 2504

RML 111311

(2504) 55 ϕ Boophilus geigy
 (a) MISSING

Cattle

Possibly Katumpu (09.30 N, 11.54 W),
 Sierra Leone

2.IX.1913

Rec'd from Dr. J. Y. Wood

ORIGINAL DETERMINATION

N 2505, a-c

(2505) Boophilus australis ♀'s
 (a) Amblyomma variegatum ♂'s, ♀'s
 (b) Amblyomma splendidum ♂'s
 (c) Rhipicephalus falcatus ♂, ♀

Cattle

Firawa, Sierra Leone

19.VIII.1913

Rec'd from Dr. J. Y. Wood

N 2506, a-c

(2506) Boophilus australis 1 ♂, ♀'s
 (a) Amblyomma variegatum ♂'s, ♀'s
 (b) Amblyomma splendidum 1 ♂
 (c) Rhipicephalus falcatus 2 ♀

Cattle

Kabunga, Sierra Leone

3.IX.1913

Rec'd from Dr. J. Y. Wood

(2506a) 1 ♂, 1 ♀ to Dr. de Blieck,
 Java, 22.I.1915

CURRENT STATUS

N 2505, b, c

RML 111312

(2505) 4 ♂, 170 ♀ Boophilus geigyi
 (a) MISSING
 (b) 4 ♂ Amblyomma splendidum
 (c) 2 ♂, 2 ♀ Rhipicephalus
senegalensis

Cattle

Either Firawa (09.21 N, 11.18 W) or
 (09.31 N, 10.51 W), Sierra Leone

19.VIII.1913

Rec'd from Dr. J. Y. Wood

(2505b) cited: Robinson (1926: 125).

N 2506, b, c

RML 111313

(2506) 1 ♂, 126 ♀ Boophilus geigyi
 (a) MISSING
 (b) 1 ♂ Amblyomma splendidum
 (c) 2 ♀ Rhipicephalus senegalensis

Cattle

Kabunga (09.29 N, 11.43 W),
 Sierra Leone

3.IX.1913

Rec'd from Dr. J. Y. Wood

(2506b) cited: Robinson (1926: 125).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2507

N 2507

RML 111314

Amblyomma tholloni ♂'s, ♀'s (many)23 ♂, 62 ♀, 1 N Amblyomma tholloni

Elephant

Loxodonta africana

Kalakunko, Sierra Leone

Kalakunko, Sierra Leone (locality
not verified)

22.VII.1913

22.VII.1913

Rec'd from Dr. J. Y. Wood

Rec'd from Dr. J. Y. Wood

Cited: Robinson (1926: 252).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2508

N 2508

RML 111315

Haemaphysalis sp. N1 N Haemaphysalis sp.Green lizard (Lacerta ocellata)Lacerta lepida

El Kantara, S. Algeria, North Africa

El Kantara (35.13 N, 05.43 E),
Algeria

15.IV.1913

15.IV.1913

P. A. Buxton

P. A. Buxton

N 2509

N 2509

RML 111316

Ixodes tenuirostris 1 L1 L Ixodes triangulicepsEar of Microtus arvensisEar of Microtus agrestis

Barton, Cambs, England

Barton (51.59 N, 01.37 W),
England

20.X.1913

20.X.1913

P. A. Buxton

P. A. Buxton

(Received from P. A. Buxton, Esq.,
Trinity College, Cambridge,
3.XI.1913.)Cited: Nuttall (1916: 334);
Thompson (1968: 148).

Collection of ticks received for determination from Dr. C.H.T. Townsend,
 Director de Estaciones Entomologicas, Direccion de Aguas y Agricultura,
 Casilla de Correo 1237, Lima, Peru, S. America 22 October 1913:-

ORIGINAL DETERMINATION

CURRENT STATUS

N 2510

Boophilus annulatus ♂'s, ♀'s

Horse

Chosica, Peru

22.I.1913

Rec'd. from C.H.T. Townsend

Townsend No. A.2157

N 2510

RML 111317

1 ♂, 12 ♀ Boophilus annulatus

Horse

Chosica (11.54 S, 76.42 W), Peru

22.I.1913

Rec'd. from C.H.T. Townsend

See comment under N 1830.

Charles Henry Tyler Townsend
 (1863-1944), well known
 Entomologist and author of more
 than 1000 articles including the
 "Manual of Myiology" in 12 parts,
 3760 pages.

N 2511

Boophilus annulatus ♀'s

Cattle

Santa Ana, Salvador

25.XI.1912

Rec'd. from C.H.T. Townsend

Townsend No. A.2157

N 2511

RML 111318

7 ♀ Boophilus annulatus

Cattle

Santa Ana, Salvador, Peru
 (locality not verified)

25.XI.1912

Rec'd. from C.H.T. Townsend

ORIGINAL DETERMINATIONCURRENT STATUS

N 2512

Ornithodoros furcosus

"in walls of mud houses"

Chachapoyas, Amazonas

1913

Rec'd. from C.H.T. Townsend

Townsend No. A.3157
C. W. det. 1917

N 2512

RML 105773

4 ♂, 10 ♀, 15 N Ornithodoros furcosus

"in walls of mud houses"

Chachapoyas (06.13 S, 77.51 W),
Peru

1913

Rec'd. from C.H.T. Townsend

N 2513

Ixodes nuttalli N

"Vizcacha"

Ninahuanchi, Peru

1.II.1913

Rec'd. from C.H.T. Townsend

Townsend No. A.3158

[mounted by me on a slide]

N 2513

RML 111319

1 N Ixodes nuttalliLagidium peruanumNinahuanchi, Peru (locality
not verified)

1.II.1913

Rec'd. from C.H.T. Townsend

Cited: Nuttall (1916: 311).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2514

Ixodes nuttalli L & N's

"Vizcacha"

Ninahuanchi, Peru

1.II.1913

Rec'd. from C.H.T. Townsend

Townsend No. A.3158

N 2514

RML 111320

2 N, 19 L Ixodes nuttalliLagidium peruanumNinahuanchi, Peru (locality
not verified)

1.II.1913

Rec'd. from C.H.T. Townsend

Cited and figured: Nuttall (1916:
310).

N 2515

Ixodes nuttalli 1 L

"Vizcacha"

Ninahuanchi, Peru

14.V.1913

Rec'd. from C.H.T. Townsend

Townsend No. A.3158

[Height above Mt. Suico 8,000 ft.]

2515 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 2516

Argas persicus larvae

"Goat-suckers"

Mouth of Santa Eulalia Valley,
Peru

1.II.1913

Rec'd. from C.H.T. Townsend

Townsend No. A.4157
(Like our African 1574,
C. W. det. 1917)

N 2516

RML 105653

7 L Argas sp. nr. dalei

"Goat-suckers"

Santa Eulalia (15.28 S, 74.42 W),
Peru

1.II.1913

Rec'd. from C.H.T. Townsend

2 larvae mounted on slides and
retained at RML. These specimens
are similar to A. dalei except
for tarsal setae counts.

N 2517

Ixodes nuttalli ♂, ♀'s

"Vizcacha"

Ninahuanchi, Peru

1.II.1913

Rec'd. from C.H.T. Townsend

Townsend No. A.5157

N 2517

RML 111321

1 ♂, 2 ♀ Ixodes nuttalliLagidium peruanumNinahuanchi, Peru (locality not
verified)

1.II.1913

Rec'd. from C.H.T. Townsend

Cited and figured: Nuttall
(1916: 308, 309, 311).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2518

Ixodes auritulus 1 ♀

Head of "thrush"

Oroya, Peru (12,000 ft.)

7.III.1913

Rec'd. from C.H.T. Townsend

Townsend No. A.6158

N 2518

RML 111322

1 ♀ Ixodes auritulus

Head of "thrush"

Oroya, Peru (3658 m) (locality
not verified; 3 possible
localities)

7.III.1913

Rec'd. from C.H.T. Townsend

Cited: Nuttall (1916: 314).

N 2519

Ixodes sp. N's & L

Rat

Pachacayo, Peru (12,000 ft.)

27.III.1913

Rec'd. from C.H.T. Townsend

Townsend No. A.7517

N 2519

RML 111323

11 N, 38 L Ixodes sp.

Rat

Pachacayo (11.46 S, 75.44 W),
Peru (3658 m)

27.III.1913

Rec'd. from C.H.T. Townsend

ORIGINAL DETERMINATIONCURRENT STATUS

N 2520

N 2520

RML 111324

Ixodes auritulus 1 ♀, 3 N1 ♀, 2 N Ixodes auritulus

Pipit

Pipit

Junin, Peru (14,000 ft.)

Junin (11.10 S, 76.00 W), Peru
(4267 m)

19.III.1913

19.III.1913

Rec'd from C.H.T. Townsend

Rec'd from C.H.T. Townsend

Townsend No. A.7518

Cited: Nuttall (1916: 314).
Arthur (1960a: 204) cited the
locality as Lunin, Peru.

N 2521

N 2521

RML 111325

Argas sp. L24 L Ornithodoros sp.Athlene sp.Athene sp.Chosica, Canyon, Peru
(3,500 ft.)Chosica (11.54 S, 76.42 W),
Peru (1067 m)

30.IV.1913

30.IV.1913

Rec'd from C.H.T. Townsend

Rec'd from C.H.T. Townsend

Townsend No. A.8157

Cited: Townsend (1913: 125).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2522

N 2522

Ornithodoros talaje 1 adult & N's

RML 111326

1 ♂, 1 ♀, 15 N Ornithodoros amblus

Sea-birds

Sea-birds

Guano Islands, Peru

Islas de Chincha (13.38 S,
76.25 W), Peru

IV.1913

IV.1913

Rec'd. from C.H.T. Townsend

Rec'd. from C.H.T. Townsend

Townsend No. A.8158

N 2523

N 2523 MISSING

Argas sp. L

Sea-birds

Ancon, Peru

12.V.1913

Rec'd. from C.H.T. Townsend

Townsend No. A.9157

Ticks received from Dr. Donald W. Carr, Ispahan, Persia, who presented them in person on 10 November, 1913. [Home address: Holbrook Hall, Derby.]

ORIGINAL DETERMINATIONCURRENT STATUS

N	2524	N	2524
		RML	111327
	<u>Ornithodoros lahorensis</u>		4 ♂, 13 ♀ <u>Ornithodoros lahorensis</u>
	From "mud walls of sheep pens"		From "mud walls of sheep pens"
	Ispahan, Persia		Esfahan (32.00 N, 57.30 E), Iran
	IX.1913		IX.1913
	Rec'd. from Dr. Donald W. Carr		Rec'd. from Dr. Donald W. Carr
	Some (sex/stage not stated) to Dr. Adler, Hebrew University, Jerusalem 22.IV.1925.		
N	2525	N	2525
		RML	111328
	<u>Ornithodoros lahorensis</u>		1 ♂, 6 ♀, 24 N <u>Ornithodoros lahorensis</u>
	Sheep and Goats		Sheep and Goats
	Ispahan, Persia		Esfahan (32.00 N, 57.30 E), Iran
	IX.1913		IX.1913
	Rec'd. from Dr. Donald W. Carr		Rec'd. from Dr. Donald W. Carr
N	2526	N	2526
		RML	105706
	<u>Argas persicus</u>		2 ♂, 2 ♀ <u>Argas persicus</u> 2 ♀ <u>Argas hermanni</u>
	Off ?		Off ?
	Ispahan, Persia		Esfahan (32.00 N, 57.30 E), Iran
	5.XII.1910		5.XII.1910
	Rec'd. from Dr. Donald W. Carr		Rec'd. from Dr. Donald W. Carr

ORIGINAL DETERMINATIONCURRENT STATUS

N 2527

Dermacentor niveus 1 ♂, 1 ♀"Coney" (Ochotona rufescens)

Soh, near Ispahan, Persia

VIII.1913

Rec'd. from Dr. Donald W. Carr

Note re 2527. Reexamined 14.VII.1921, we think it a poorly characterized niveus, small possibly underdeveloped. See Neumann's letter of 9.I.1914. [Note: Soh is a small village about 60 miles from Ispahan & is situated at an altitude of 8,000 ft. "Coney" is a small rodent 6-8 inches in length; has no tail; fur brown; & lives in holes amongst stones (usually) under ground.]

N 2528

Ixodes canisuga 2 N's

Badger

Ispahan, Persia

IV.1913

Rec'd. from Dr. Donald W. Carr

N 2527

RML 111329

1 ♂, 1 ♀ Dermacentor niveusOchotona rufescens

Soh (33.26 N, 51.27 E), Iran

VIII.1913

Rec'd. from Dr. Donald W. Carr

N 2528

RML 111330

2 N Ixodes sp.Meles meles

Esfahan (32.00 N, 57.30 E), Iran

IV.1913

Rec'd. from Dr. Donald W. Carr

Cited: Nuttall (1916: 327).

Eight tubes of ticks received from Colonel E.R.C. Butler, A.V.C. Ootacamund, Madras, India, 10 November, 1913:-

ORIGINAL DETERMINATION

CURRENT STATUS

N 2529, a-c

N 2529a-c

RML 111331

(2529) Hyalomma aegyptium ♂'s, ♀'s
(a) Boophilus australis ♂, ♀, N
(b) Haemaphysalis bispinosa ♂, ♀
(c) Rhipicephalus haemaphysaloides
♂, ♀'s

(2529) MISSING
(a) 1 ♂, 3 ♀, 3 N Boophilus microplus
(b) 1 ♂, 1 ♀ Haemaphysalis bispinosa
(c) 1 ♂, 4 ♀ Rhipicephalus
haemaphysaloides

Bullocks

Bullocks

Poona, India

Poona (18.32 N, 73.52 E), India

X.1913

X.1913

Major Eassie

Major Eassie

(2529b) cited: Nuttall &
Warburton (1915: 432).

N 2530, a

N 2530

RML 111332

(2530) Boophilus australis ♀, N's
(a) Hyalomma aegyptium ♂

(2530) 2 ♀, 1 N Boophilus microplus
(a) MISSING

Buffalo

Buffalo

Poona, India

Poona (18.32 N, 73.52 E), India

X.1913

X.1913

Major Eassie

Major Eassie

N 2531

N 2531 MISSING

Rhipicephalus sanguineus ♂'s, ♀'s

Dogs

Poona, India

X.1913

Major Eassie

ORIGINAL DETERMINATIONCURRENT STATUS

N	2532	N	2532
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s	RML	111333
	Horse		4 ♂, 11 ♀ <u>Hyalomma anatolicum anatolicum</u>
	Hyderabad-Sind, India		Horse
	X.1913		Hyderabad (17.23 N, 78.28 E), India
	Lt. E. G. Turner		X.1913
			Lt. E. G. Turner
N	2533	N	2533 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dog		
	Hyderabad-Sind, India		
	X.1913		
	Lt. E. G. Turner		
N	2534	N	2534 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Bullock & Horse		
	Hyderabad-Sind, India		
	X.1913		
	Lt. E. G. Turner		
N	2535	N	2535 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dogs		
	Trimulgherry, Deccan, India		
	X.1913		
	Capt. A. J. Williams		
	Given to D. S. MacLagan 14/10/38		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2536

Hyalomma aegyptium ♂'s

Horses

Trimulgherry, India

X.1913

Capt. A. J. Williams

N 2536

RML 111334

2 ♂ Hyalomma marginatum isaaci

Horses

Trimulgherry (17.28 N, 78.30 E),
India

X.1913

Capt. A. J. Williams

One of these males is partially
deformed.Four tubes of ticks received from L. C. Heath, Esq., Mwengwa, Mumbwa,
N. Rhodesia, B. C. Africa, 11 November 1913:-

N 2537

Rhipicephalus simus ♂'s, ♀'s, N's & L

Cane rats

Yongwe River, Mwengwa District,
N. Rhodesia

17.IX.1913

Rec'd. from L. C. Heath

N 2537

RML 111335

5 ♂, 1 ♀, 15 N Rhipicephalus
simpsoniThryonomys sp.Yongwe River (14.03 S, 28.57 E),
Zambia

17.IX.1913

Rec'd. from L. C. Heath

ORIGINAL DETERMINATIONCURRENT STATUS

N	2538, a	N	2538, a
		RML	111336
	(2538) <u>Boophilus</u> sp. N's		(2538) 9 N <u>Boophilus</u> sp.
	(a) <u>Rhipicephalus capensis</u> 1 ♂		(a) 1 ♂ <u>Rhipicephalus pravus</u>
	Sable antelope		<u>Hippotragus niger</u>
	Near Kampengele's, Mwengwa District, N. Rhodesia		Near Kampengele (15.10 S, 26.29 E), Zambia
	18.IX.1913		18.IX.1913
	Rec'd. from L. C. Heath		Rec'd. from L. C. Heath
N	2539, a	N	2539, a
		RML	111337
	(2539) <u>Boophilus decoloratus</u> 1 ♀		(2539) 1 ♀ <u>Boophilus decoloratus</u>
	(a) <u>Rhipicephalus</u> sp. 1 N		(a) 1 N <u>Rhipicephalus</u> sp.
	(with beady eyes)		
	Impala		<u>Aepyceros melampus</u>
	Balumbwa, N. Rhodesia		Balumbwa (15.25 S, 26.24 E), Zambia
	23.IX.1913		23.IX.1913
	Rec'd. from L. C. Heath		Rec'd. from L. C. Heath
N	2540	N	2540
		RML	111338
	<u>Rhipicephalus evertsi</u> N's		20 N <u>Rhipicephalus evertsi</u>
	Reed-buck		<u>Redunca arundinum</u>
	Balumbwa, N. Rhodesia		Balumbwa (15.25 S, 26.24 E), Zambia
	23.IX.1913		23.IX.1913
	Rec'd. from L. C. Heath		Rec'd. from L. C. Heath

Ticks received from Captain Ronald E. Todd, R.A.M.C., Public Health Department, Asyut, 17 November 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2541	N	2541
		RML	111339
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		3 ♂, 9 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Minia, Upper Egypt		El Minya (28.06 N, 30.45 E), Egypt
	15.II.1913		15.II.1913
	H. Mason		H. Mason
N	2542	N	2542 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Bulls		
	Maghagha, Upper Egypt		
	5.II.1913		
	H. Mason		
N	2543	N	2543
		RML	111340
	<u>Boophilus australis</u> ♀'s		49 ♀ <u>Boophilus annulatus</u>
	Bulls		Bulls
	Maghagha, Upper Egypt		Maghaghah (28.39 N, 30.50 E), Egypt
	5.II.1913		5.II.1913
	H. Mason		H. Mason

Ticks received from Professor A. Berlese, R. Stazione di Entomologia Agraria,
Via Romana N.19, Firenze, Italy, 17 November, 1913:-

ORIGINAL DETERMINATIONCURRENT STATUS

N 2544, a, b

N 2544, a, b

RML 111341

(2544) Rhipicephalus bursa nymphs(2544) 565 N Rhipicephalus bursa(a) Ixodes ricinus 1 ♂, ♀'s(a) 17 ♀ Ixodes ricinus(b) Haemaphysalis punctata 1 ♂, ♀'s(b) 1 ♂, 37 ♀, 1 N Haemaphysalis punctata

Off ? (probably sheep or cattle)

Off ? (probably sheep or cattle)

Coscana, Maremma, Tuscany, Italy

Coscana, Maremma Region
(42.30 N, 11.30 E), Italy

XI.1913

XI.1913

A. Berlese

A. Berlese

(2544a) 1 ♀ to J. de Meza

Antonio Berlese (1863-1927)

Zomba, Nyasaland 19.II.1916

Expert on Mesostigmata, an

♀'s to Prof. Wheeler, Boston,
Mass. 20.II.1915.excellent scientific artist and
one of the fathers of Acarology.2 ♀ to Prof. E. Malvoz, Liège
30.V.1929.2 ♀ to E. T. Boardman, Univ.
Florida, Gainesville 30.V.1929.(2544b) label in vial "4 specimens
given to E. B. Britten 27.XI.1959."
(2544a) cited: Nuttall (1916: 333).
(2544b) cited: Nuttall & Warburton
(1915: 386).

N 2545

N 2545 MISSING

Rhipicephalus bursa nymphs (alive)

Off ? (probably sheep or cattle)

Coscana, Maremma, Tuscany, Italy

XI.1913

A. Berlese

[No. 2545 used for raising
experiments.]

ORIGINAL DETERMINATIONCURRENT STATUS

N 2546

N 2546

RML 111342

Ixodes brunneus 1 ♀ (alive)1 ♀ Ixodes frontalisWagtail (Motacilla lugubris)Motacilla alba yarrellii

Near Pulborough, Sussex, England

Near Pulborough (50.57 N, 00.31 W),
England

20.XI.1913

20.XI.1913

S. Baxter

S. Baxter

Rec'd. from Dr. A.F.R. Wollaston
(London, S.W.), 25.XI.1913
[Used for raising experiments]Cited: Nuttall (1916: 325);
Arthur (1952: 153);
Arthur (1963: 118).

Ticks received from C. A. de F. Roofe, Mountcoombe, Surrey, 27.XI.1913, stating that he had just returned from N. Nigeria. (The covering letter was addressed to G. Merriman, Quick Laboratory, "if left, please hand to Professor Nuttall"):-

N 2547, a, b

N 2547a, b

RML 111343

(2547) Rhipicephalus sanguineus 1 ♀

(2547) MISSING

(a) Rhipicephalus simus ♀(a) 1 ♀ Rhipicephalus simus(b) Boophilus sp. nymph(b) 1 ♂ Boophilus geigy

Bull terrier pup

Dog

Gurum Camp (about 4 miles north of
Naraguta), Banchi Province, N. NigeriaGurum (10.02 N, 08.50 E) (about
6.6 km N of Naraguta Hausawa),
Benue Plateau, Nigeria

19.IX.1913

19.IX.1913

Rec'd. from C. A. de F. Roofe
(with fleas)

Rec'd. from C. A. de F. Roofe

ORIGINAL DETERMINATIONCURRENT STATUS

N 2548

Rhipicephalus appendiculatus ♂'s, ♀'s

Old leopard

Buji (about 10 miles north of Naraguta), Banchi Province, N. Nigeria

16.I.1913

Rec'd. from C. A. de F. Roofe

[Ticks found chiefly attached round ears and chest.]

N 2548

RML 111344

11 ♂, 3 ♀ Rhipicephalus carnivoralis

Panthera pardus

Buji (10.07 N, 08.50 E), (about 16 km N of Naraguta Hausawa), Benue Plateau, Nigeria

16.I.1913

Rec'd. from C. A. de F. Roofe

N 2549

Amblyomma variegatum ♀'s

(Hausa) Ram

Hephram (about 19 miles S.W. of Jos), N. Nigeria

10.VI.1913

Rec'd. from C. A. de F. Roofe

[Tick on neck and breast]

N 2549 MISSING

N 2550

Amblyomma variegatum 1 ♂

Pagan Bitch

Hephram (about 19 miles S.W. of Jos), N. Nigeria

20.VI.1913

Rec'd. from C. A. de F. Roofe

[Ticks found between toes]

N. B. Mr. Roofe writes "This Pagan dog was the ordinary pie dog found in most bush villages."

N 2550 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 2551

N 2551 MISSING

Amblyomma variegatum 1 ♂

Beagle pup

Hephram N. Nigeria

28.VI.1913

Rec'd from C. A. de F. Roofe

[Tick found on hind leg.]

Four tubes of ticks received from W. H. J. van Heemstra, Oglan-Anassi,
Djumowassi, Smyrna, Asiatic Turkey, 29 November 1913:-

N 2552, a, b,

N 2552, 2552b

RML 111345

(2552) Hyalomma aegyptium ♂'s, ♀'s(a) Boophilus annulatus ♂'s, ♀'s(b) Haemaphysalis punctata ♀'s(2552) 2 ♂, 3 ♀ Hyalomma anatolicum excavatum

(a) MISSING

(b) 2 ♀ Haemaphysalis punctata

Horses and Cattle

Horses and Cattle

Smyrna, Turkey

Izmir (38.25 N, 27.09 E), Turkey

XI.1913

XI.1913

Rec'd from W. H. J. van Heemstra

Rec'd from W. H. J. van Heemstra

(2552b) incorrectly cited as
2552a by Nuttall & Warburton
(1915: 387).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2556

N 2556 MISSING

Hyalomma aegyptium ♂'s, ♀'s

Black buck

Mhow, Central Provinces, India

11.XI.1913

Rec'd. from Major T. W. Rudd,
A.V.C. 29.XI.1913Collection of ticks received for determination from Dr. Kudicke, Institut
für Seuchenbekämpfung, Daressalam, German East Africa, 25 November 1913:-

N 2557

N 2557

RML 111349

Rhipicephalus evertsi7 ♂, 5 ♀ Rhipicephalus evertsi

Cattle

Cattle

Wilhelmstal, G. E. Africa

Lushoto (04.47 S, 38.17 E),
Tanzania

Rec'd. 25.XI.1913

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

Rec'd. from Dr. Kudicke

Sixty collections from Dr. Kudicke
which Nuttall numbered "1" - "60"
spanning Nuttall numbers 2557-2616.

N 2558

N 2558 MISSING

Ornithodoros moubata

From Negro huts

Lindi, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N 2559
Ornithodoros moubata
 From rest-houses
 Bukoba-Bezirk, German East Africa
 Rec'd. 25.XI.1913
 Rec'd. from Dr. Kudicke

N 2559 MISSING

N 2560, a
 (2560) Rhipicephalus evertsi ♂
 (a) Rhipicephalus neavei 2 ♀
 Camel
 Lindi, German East Africa
 Rec'd. 25.XI.1913
 Rec'd. from Dr. Kudicke

N 2560, a
 RML 111350
 (2560) 6 ♂, 1 ♀ Rhipicephalus evertsi
 (a) 2 ♀ Rhipicephalus kochi
Camelus dromedarius
 Lindi (10.00 S, 39.43 E), Tanzania
 Rec'd. 25.XI.1913
 Rec'd. from Dr. Kudicke

N 2561
Rhipicephalus evertsi ♂, ♀
 Cattle
 Wilhemstal, German E. Africa
 Rec'd. 25.XI.1913
 Rec'd. from Dr. Kudicke

N 2561
 RML 111351
 10 ♂, 4 ♀ Rhipicephalus evertsi
 Cattle
 Lushoto (04.47 S, 38.17 E), Tanzania
 Rec'd. 25.XI.1913
 Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N	2562	N	2562
	<u>Rhipicephalus evertsi</u> ♂, ♀	RML	111352
	Cattle		9 ♂, 7 ♀ <u>Rhipicephalus evertsi</u>
	Wilhelmstal, German E. Africa		Cattle
	Rec'd. 25.XI.1913		Lushoto (04.47 S, 38.17 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke
N	2563	N	2563
	<u>Ornithodoros moubata</u>	RML	111353
	From Negro huts		1 ♂, 3 N <u>Ornithodoros moubata</u>
	Lindi, German E. Africa		From Negro huts
	Rec'd. 25.XI.1913		Lindi (10.00 S, 39.43 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke
			Probably <u>O. moubata porcinus</u> cited as 1 ♀, 2 N by van der Merwe (1968: 286).
N	2564	N	2564
	<u>Rhipicephalus evertsi</u> ♀	RML	111354
	Cattle		1 ♀ <u>Rhipicephalus evertsi</u>
	Wilhelmstal, German E. Africa		Cattle
	Rec'd. 25.XI.1913		Lushoto (04.47 S, 38.17 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATION

N 2565

Rhipicephalus sanguineus ♂, ♀, N

Dog

Wilhelmstal, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

1 ♂, 1 ♀, 1 N to J. de Meza, Zomba,
Nyasaland 19.II.1916

N 2566, a, b

(2566) Rhipicephalus neavei ♀'s(a) Rhipicephalus evertsi ♂(b) Rhipicephalus sanguineus ♀

Cattle

Wilhelmstal, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

CURRENT STATUS

N 2565

RML 111355

9 ♂, 13 ♀, 9 N Rhipicephalus
sanguineus

Dog

Lushoto (04.47 S, 38.17 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2566, a, b

RML 111356

(2566) 5 ♀ Rhipicephalus kochi(a) 1 ♂ Rhipicephalus evertsi(b) 1 ♀ Rhipicephalus sanguineus

Cattle

Lushoto (04.47 S, 38.17 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

(2566b) tentative ID. Genital
aperture quite narrow.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2567, a	N	2567, a
	(2567) <u>Amblyomma variegatum</u> ♂, ♀	RML	111357
	(a) <u>Rhipicephalus neavei</u> ♀'s		(2567) 68 ♂, 26 ♀ <u>Amblyomma</u> <u>variegatum</u>
	Cattle		(a) 2 ♀ <u>Rhipicephalus appendiculatus</u>
	Bukoba-Bezirk, German E. Africa		Cattle
	28.XI.1912		Bukoba District (01.35 S, 31.30 E), Tanzania
N	2568	N	2568 MISSING
	<u>Ornithodoros moubata</u>		
	West Ussuri, Bukoba-Bezirk, German E. Africa		
	Rec'd. 25.XI.1913		
	Rec'd. from Dr. Kudicke		
N	2569	N	2569
	<u>Ornithodoros moubata</u>	RML	111358
	From Resting houses		16 ♂, 11 ♀, 16 N <u>Ornithodoros</u> <u>moubata</u>
	Bukoba-Bezirk, German E. Africa		From Resting houses
	Rec'd. 25.XI.1913		Bukoba District (01.35 S, 31.30 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke
			Probably <u>O. moubata porcinus</u>

ORIGINAL DETERMINATIONCURRENT STATUS

N 2570, a-d

(2570) Rhipicephalus pulchellus
 σ^1 's, φ^1 's

(a) Hyalomma aegyptium 3 σ
 (b) Rhipicephalus evertsi σ , φ
 (c) Amblyomma gemma
 (d) Rhipicephalus neavei φ 's

Cattle

Lewäre-Saguta, place in Bezirk
 Wilhelmstal (Massai Steppe, right
 bank of Pangani River),
 Sanitätsdienststelle, Wilhelmstal,
 German E. Africa

16.V.1913

Meyer

N 2571, a

(2571) Rhipicephalus evertsi
 (a) Rhipicephalus neavei φ 's

Goat

Wilhelmstal, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2572

Ornithodoros moubata

From Negro huts

Lindi, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2570, a-d

RML 66661

(2570) 10 σ , 7 φ Rhipicephalus
pulchellus

(a) 3 σ Hyalomma rufipes
 (b) 3 σ , 2 φ Rhipicephalus evertsi
 (c) 1 σ , 1 φ Amblyomma gemma
 (d) 4 φ Rhipicephalus pravus

Cattle

Lewäre-Saguta, Lushoto District
 (04.40 S, 38.20 E), Tanzania

16.V.1913

Meyer

N 2571, a

RML 111359

(2571) 2 σ , 3 φ Rhipicephalus evertsi
 (a) 2 φ Rhipicephalus kochi

Goat

Lushoto (04.47 S, 38.17 E),
 Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2572 MISSING

ORIGINAL DETERMINATION

N 2573, a, b

(2573) Rhipicephalus evertsi ♂, ♀(a) Rhipicephalus pulchellus ♂(b) Rhipicephalus neavei ♂, ♀

Goats

Lewäre-Saguta, place in Bezirk
 Wilhelmstal (Massai Steppe, right
 bank of Pangani River),
 Sanitätsdienststelle, Wilhelmstal,
 German E. Africa

17.V.1913

Meyer

N 2574

Ornithodoros moubata

From Negro huts

Lindi, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

CURRENT STATUS

N 2573, a

RML 111360

(2573) 24 ♂, 8 ♀ Rhipicephalus evertsi(a) 1 ♂ Rhipicephalus pulchellus

(b) MISSING

Goats

Lewäre-Saguta, Lushoto District
 (04.40 S, 38.20 E), Tanzania

17.V.1913

Meyer

N 2574

RML 111361

1 ♂, 2 N Ornithodoros moubata

From Negro huts

Lindi (10.00 S, 39.43 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

Probably O. moubata porcinus.
 Cited as 3 ♀ by van der Merwe
 (1968: 286).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2575, a

(2575) Rhipicephalus evertsi
(a) Rhipicephalus neavei ♀

Cattle

Wilhelmstal, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2575, a

RML 111362

(2575) 2 ♂, 1 ♀ Rhipicephalus evertsi
(a) 1 ♀ Rhipicephalus kochi

Cattle

Lushoto (04.47 S, 38.17 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2576

Rhipicephalus evertsi

Cattle

Wilhelmstal, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2576

RML 111363

5 ♂, 3 ♀ Rhipicephalus evertsi

Cattle

Lushoto (04.47 S, 38.17 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N	2579	N	2579
		RML	111364
	<u>Rhipicephalus evertsi</u>		4 ♂, 1 ♀ <u>Rhipicephalus evertsi</u>
	Goat		Goat
	Lindi, German E. Africa		Lindi (10.00 S, 39.43 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
N	2580	N	2580
		RML	111365
	<u>Rhipicephalus evertsi</u>		14 ♂, 3 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Wilhelmstal, German E. Africa		Lushoto (04.47 S, 38.17 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
N	2581, a, b	N	2581, a, b
		RML	111366
	(2581) <u>Rhipicephalus simus</u>		(2581) 7 ♂, 5 ♀ <u>Rhipicephalus simus</u>
	(a) <u>Rhipicephalus sanguineus</u> ♂, ♀		(a) 1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	(b) <u>Haemaphysalis leachi</u>		(b) 1 ♀ <u>Haemaphysalis leachi</u>
	Jackals		<u>Canis adustus</u> or <u>Canis mesomelas</u>
	Kilimabindi, Ngogo, German E. Africa		Kilimatinde (05.51 S, 34.57 E), Tanzania
	14.VII.1913		14.VII.1913
	Dr. W. Bartels		Dr. W. Bartels
	(2581) 1 ♂, 1 ♀ to J. de Meza, Zomba, Nyasaland 19.II.1916.		(2581b) cited: Nuttall & Warburton (1915: 470).
	(2581b) 1 ♂, 1 ♀ to Dr. Kudicke, Dar es Salaam, German E. Africa 22.IV.1914.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2582

Ornithodoros moubata

From Native huts

Buiko & Ndungo Bezirk Wilhelmstal,
German E. Africa

28.V.1911

Rec'd. from Dr. Kudicke

Given to D. S. MacLagan 14/10/38

N 2582 MISSING

N 2583

Rhipicephalus evertsi

Cattle

Wilhelmstal, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2583

RML 111367

6 ♂, 2 ♀ Rhipicephalus evertsi

Cattle

Lushoto (04.47 S, 38.17 E),
Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2584

Ornithodoros moubata"Wawindi" (probably the name of a
spot or district in Bezirk Iringa,
writes Dr. Kudicke 24.IV.1914.)

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2584

RML 111368

4 ♀, 9 N Ornithodoros moubata"Wawindi", Iringa District
(08.00 S, 35.30 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N	2585, a, b	N	2585a
		RML	111369
	(2585) <u>Amblyomma variegatum</u> ♂'s, ♀'s		(2585) MISSING
	(a) <u>Hyalomma aegyptium</u>		(a) 7 ♂, 1 ♀ <u>Hyalomma albiparmatum</u>
	(b) <u>Rhipicephalus appendiculatus</u>		(b) MISSING
	Cattle		Cattle
	Itamba, Bezirk Iringa, German E. Africa		Itamba (08.42 S, 34.13 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
N	2586, a-e	N	2586, a, c, e
		RML	111370
	(2586) <u>Boophilus</u> sp.		(2586) 38 ♀ <u>Boophilus decoloratus</u>
	(a) <u>Hyalomma aegyptium</u>		(a) 6 ♂, 3 ♀ <u>Hyalomma albiparmatum</u>
	(b) <u>Rhipicephalus evertsi</u>		(b) MISSING
	(c) <u>Amblyomma gemma</u>		(c) 3 ♂ <u>Amblyomma gemma</u>
	(d) <u>Amblyomma variegatum</u>		(d) MISSING
	(e) <u>Rhipicephalus appendiculatus</u>		(e) 1 ♂, 5 ♀ <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Iringa ?, German E. Africa		Iringa ? (07.46 S, 35.42 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
	(2586b) 1 ♂, 1 ♀ to Prof. E. Brumpt, Ecole Médecine, Paris 12.X.1922.		(2586c) Robinson (1926: 122) cited the collector as Dr. Bartels.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2587	N	2587
	<u>Rhipicephalus neavei</u> ♀	RML	111371
	Goat		1 ♀ <u>Rhipicephalus kochi</u>
	Lindi, German E. Africa		Goat
	Rec'd. 25.XI.1913		Lindi (10.00 S, 39.43 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke
N	2588, a, b	N	2588, a, b
	(2588) <u>Amblyomma variegatum</u>	RML	111372
	(a) <u>Ornithodoros moubata</u>		(2588) 37 ♂, 29 ♀ <u>Amblyomma variegatum</u>
	(b) <u>Rhipicephalus appendiculatus</u> ♀'s		(a) 1 ♂ <u>Ornithodoros moubata</u>
	Cattle		(b) 6 ♀ <u>Rhipicephalus appendiculatus</u>
	Bukoba-Bezirk, German E. Africa		Cattle
	Rec'd. 25.XI.1913		Bukoba District (01.35 S, 31.30 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke
N	2589	N	2589
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s	RML	111373
	Cattle		2 ♂, 3 ♀ <u>Rhipicephalus evertsi</u>
	Wilhelmstal, German E. Africa		Cattle
	Rec'd. 25.XI.1913		Lushoto (04.47 S, 38.17 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N 2590, a

(2590) Hyalomma aegyptium ♂, ♀
 (a) Rhipicephalus evertsi
 Goats
 Iringa, German E. Africa
 Rec'd. 25.XI.1913
 Rec'd. from Dr. Kudicke

N 2591, a, b

(2591) Rhipicephalus evertsi
 (a) Rhipicephalus neavei ♀
 (b) Rhipicephalus simus
 Cattle
 Wilhelmstal
 Rec'd. 25.XI.1913
 Rec'd. from Dr. Kudicke
 (2591) 1 ♂, 1 ♀ to Dr. Lajos
 Gozony, Univ. Budapest, Hungary
 23.VI.1914.

N 2590, a

RML 111374

(2590) 2 ♂, 2 ♀ Hyalomma
albiparmatum
 (a) 1 ♂ Rhipicephalus evertsi
 Goats
 Iringa (07.46 S, 35.42 E),
 Tanzania
 Rec'd. 25.XI.1913
 Rec'd. from Dr. Kudicke

N 2591, a, b

RML 111375

(2591) 8 ♂, 3 ♀ Rhipicephalus evertsi
 (a) 2 ♀ Rhipicephalus kochi
 (b) 1 ♂ Rhipicephalus simus
 Cattle
 Lushoto (04.47 S, 38.17 E), Tanzania
 Rec'd. 25.XI.1913
 Rec'd. from Dr. Kudicke
 (2591B) tentative ID

ORIGINAL DETERMINATIONCURRENT STATUS

N 2592

Amblyomma variegatum ♂, ♀

Cattle belonging to the Sultan

Kitorora - near Shirati,
German E. Africa

3.VI.1913

Rec'd. from Dr. Kudicke

1 ♂, 1 ♀ to J. de Meza, Zomba,
Nyasaland 19.II.1916.1 ♂, 2 ♀ to R. W. Mettam, Weybridge,
IV.1931.

2 ♂, 1 ♀ to H. S. Purchase IV.1931.

N 2592

RML 111376

68 ♂, 14 ♀ Amblyomma variegatum

Cattle belonging to the Sultan

Kitorora near Shirati (01.08 S,
33.59 E), Tanzania

3.VI.1913

Rec'd. from Dr. Kudicke

N 2593, a

(2593) Amblyomma variegatum
(a) Boophilus sp. ♀'s

Cattle

Singidda, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2593, a

RML 111377

(2593) 32 ♂, 22 ♀ Amblyomma variegatum
(a) 8 ♀ Boophilus decoloratus

Cattle

Singida (04.49 S, 34.45 E). Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2594

Rhipicephalus evertsi

Cattle

Wilhelmstal, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2594

RML 111378

7 ♂, 6 ♀ Rhipicephalus evertsi

Cattle

Lushoto (04.47 S, 38.17 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N	2595, a	N	2595, a
		RML	111379
	(2595) <u>Amblyomma tholloni</u>		(2595) 7 ♂, 4 ♀ <u>Amblyomma tholloni</u>
	(a) <u>Rhipicephalus maculatus</u> ♂		(a) 1 ♂ <u>Rhipicephalus maculatus</u>
	Off ?		Off ?
	Bezirk Lindi, German E. Africa		Lindi District (10.00 S, 39.20 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
	(2595) 1 ♂, 1 ♀ to Dr. Kudicke, Dar es Salaam, German E. Africa 22.VII.1914		(2595) cited: Robinson (1926: 253).
N	2596	N	2596
		RML	111380
	<u>Amblyomma variegatum</u>		33 ♂, 29 ♀, 2 N <u>Amblyomma variegatum</u>
	Cattle		1 ♀ <u>Boophilus decoloratus</u>
	Singidda, German E. Africa		Cattle
	Rec'd. 25.XI.1913		Singida (04.49 S, 34.45 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
	1 ♂, 1 ♀ to Dr. Kudicke, Dar es Salaam, German E. Africa 22.XII.1914.		Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N	2597, a	N	2597
		RML	111381
	(2597) <u>Rhipicephalus pulchellus</u> 1 ♂, 2 ♀		(2597) 1 ♂, 2 ♀ <u>Rhipicephalus pulchellus</u>
	(a) <u>Rhipicephalus evertsi</u> ♂		(a) MISSING
	Kongoni Antelope		Kongoni antelope
	Schembekuli, Bezirk Wilhelmstal (Massai Steppe, right bank of Pangani River), Sanitätsdienststelle- Wilhelmstal, German E. Africa		Schembekuli, Lushoto District (04.40 S, 38.20 E), Tanzania
	13.V.1913		13.V.1913
	Meyer		Meyer
N	2598, a	N	2598, a
		RML	111382
	(2598) <u>Rhipicephalus sanguineus</u>		(2598) 28 ♂, 22 ♀ <u>Rhipicephalus sanguineus</u>
	(a) <u>Rhipicephalus evertsi</u> 1 ♂		(a) 1 ♂ <u>Rhipicephalus evertsi</u>
	Dog		Dog
	Usukuma, German E. Africa		Usukuma, Tanzania (locality not verified)
	V.1913		V.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N 2599, a

N 2599, a

RML 111383

(2599) Amblyomma gemma ♂'s, ♀'s
 (a) Rhipicephalus pulchellus

(2599) 10 ♂, 1 ♀ Amblyomma gemma
 (a) 8 ♂, 1 ♀ Rhipicephalus pulchellus

Eland Antelope

Taurotragus oryx

Schembekuli, Bezirk Wilhelmstal
 (Massai Steppe, right bank of Pangani
 River), Sanitätsdienststelle-
 Wilhelmstal, German E. Africa

Schembekuli, Lushoto District
 (04.40 S, 38.20 E), Tanzania

13.V.1913

13.V.1913

Meyer

Meyer

(2599) cited: Robinson (1926: 122).

N 2600, a

N 2600

RML 111384

(2600) Rhipicephalus simus
 (a) Ornithodoros moubata

(2600) 33 ♂, 10 ♀ Rhipicephalus simus
 (a) MISSING

Warzenischwein

Phacochoerus aethiopicus

Tabora, German E. Africa

Tabora, Tanzania (locality not
 verified; 5 possible localities)

Rec'd. 25.XI.1913

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATION

N 2601, a

(2601) Rhipicephalus sanguineus
 σ^1 s, φ^1 s
 (a) Rhipicephalus simus

Wild dog

Usukuma, German E. Africa

V.1913

Rec'd. from Dr. Kudicke

N 2602, a

(2602) Rhipicephalus evertsi
 (a) Rhipicephalus pulchellus φ

Grants gazelle

Marangeek, Bezirk Wilhelmstal
 (Massai Steppe, right bank of Pani
 River), Sanitätsdienststelle
 Wilhelmstal, German E. Africa

16.V.1913

Meyer

CURRENT STATUS

N 2601, a

RML 111385

(2601) 16 σ , 9 φ Rhipicephalus
sanguineus
 (a) 9 σ , 12 φ Rhipicephalus simus

Lycaon pictus

Sukuma (02.27 S, 33.07 E) or
 (02.38 S, 33.31 E), Tanzania

V.1913

Rec'd. from Dr. Kudicke

N 2602, a

RML 111386

(2602) 2 σ , 1 φ Rhipicephalus evertsi
 (a) 1 φ Rhipicephalus pulchellus

Gazella granti

Marangeek, Lushoto District
 (04.40 S, 38.20 E), Tanzania

16.V.1913

Meyer

ORIGINAL DETERMINATIONCURRENT STATUS

N 2603, a

(2603) Rhipicephalus pulchellus

(a) Amblyomma gemma ♂

Gnu

Marangeek, Bezirk Wilhelmstal
(Massai Steppe, right bank of Pani
River), Sanitätsdienststelle
Wilhelmstal, German E. Africa

Rec'd 25.XI.1913

Rec'd from Dr. Kudicke

(2603) 1 ♂, 1 ♀ to R. W. Mettam,
Weybridge IV.1931.
1 ♂, 1 ♀ to H. S. Purchase IV.1931.

N 2603, a

RML 66682

(2603) 40 ♂, 26 ♀ Rhipicephalus pulchellus

(a) 1 ♂ Amblyomma gemma

Connochaetes taurinus

Marangeek, Lushoto District
(04.40 S, 38.20 E), Tanzania

Rec'd 25.XI.1913

Rec'd from Dr. Kudicke

(2603a) cited: Robinson (1926:
122).

N 2604, a, b

(2604) Rhipicephalus pulchellus

(a) Rhipicephalus evertsi

(b) Amblyomma gemma

Eland antelope

Schembekuli, Bezirk Wilhelmstal
(Massai Steppe, right bank of Pangani
River), Sanitätsdienststelle
Wilhelmstal, German E. Africa

13.V.1913

Rec'd from Dr. Kudicke

(2604b) 2 ♂, 2 ♀ mounted on slides
in cells II.1915

N 2604, a, b

RML 66678

(2604) 46 ♂, 3 ♀ Rhipicephalus pulchellus

(a) 8 ♂, 3 ♀ Rhipicephalus evertsi

(b) 15 ♂, 1 ♀ Amblyomma gemma

Taurotragus oryx

Schembekuli, Lushoto District
(04.40 S, 38.20 E), Tanzania

13.V.1913

Rec'd from Dr. Kudicke

Slides missing.
(2604b) cited: Robinson (1926:
122).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2605

N 2605

RML 111387

Ornithodoros moubata3 ♀ Ornithodoros moubata

From Negro huts

From Negro huts

Bezirk Lindi, German E. Africa

Lindi District (10.00 S, 39.20 E),
Tanzania

Rec'd 25.XI.1913

Rec'd 25.XI.1913

Rec'd from Dr. Kudicke

Rec'd from Dr. Kudicke

Probably O. moubata porcinus

N 2606,a

N 2606, a

RML 66646

(2606) Hyalomma aegyptium
(a) Rhipicephalus evertsi(2606) 12 ♂, 7 ♀ Hyalomma rufipes
(2606) 1 ♂ Hyalomma albiparmatum
(a) 54 ♂, 20 ♀ Rhipicephalus evertsi

Cattle

Cattle

Usukuma, German E. Africa

Sukuma (02.27 S, 33.07 E) or
(02.38 S, 33.31 E), Tanzania

V.1913

V.1913

Rec'd from Dr. Kudicke

Rec'd from Dr. Kudicke

(2606) 1 ♂, 1 ♀ to Dr. Kudicke, Dar es
Salaam, German E. Africa 22.VII.1914.(2606a) 1 ♂, 1 ♀ to Prof. R. Matheson,
Cornell 27.V.1929.1 ♂, 1 ♀ to Dr. A. C. Reed, San
Francisco 30.V.1929.1 ♂, 1 ♀ to Prof. J. Drbohlav,
Prague 30.V.1929.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2607, a

N 2607, a

RML 111388

(2607) Rhipicephalus neavei(2607) 15 ♂, 10 ♀ Rhipicephalus
pravus(a) Rhipicephalus pulchellus(a) 5 ♂, 4 ♀ Rhipicephalus
pulchellus

Sheep

Sheep

Lewäre-Saguta, place in Bezirk
Wilhelmstal (Massai Steppe, right
bank of Pangani River),
Sanitätsdienststelle, Wilhelmstal,
German E. AfricaLewäre-Saguta, Lushoto District
(04.40 S, 38.20 E), Tanzania

V.1913

V.1913

Meyer

Meyer

N 2608

N 2608

RML 111389

Amblyomma variegatum53 ♂, 34 ♀ Amblyomma variegatumWest Ussuri, Bukoba-Bezirk,
German E. AfricaWest Ussuri, Bukoba District
(01.35 S, 31.30 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N 2609

Ornithodoros moubata

From Native huts

Kihurio, Bezirk Wilhelmstal, at foot
of Pare Mts., Sanitätsdienststelle
Wilhelmstal

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

2 ♂, 2 N to J. de Meza, Zomba,
Nyasaland 19.II.1916

N 2609

RML 111390

19 ♂, 1 ♀, 20 N Ornithodoros moubata

From Native huts

Kihurio (04.28 S, 38.04 E),
Lushoto District, Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

Probably O. moubata porcinus

N 2610

Rhipicephalus evertsi ♀

Cattle

Wilhelmstal, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2610

RML 111391

1 ♀ Rhipicephalus evertsi

Cattle

Lushoto (04.47 S, 38.17 E),
Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2611

Rhipicephalus evertsi N & L

Lire Antelope

Mara Plain, near Bukenje, Shirati,
Bezirk Muansa, near British border

19.V.1913

Rec'd. from Dr. Kudicke

N 2611

RML 111392

91 N, 24 L Rhipicephalus evertsi

Lire Antelope

Mara (03.30 S, 36.42 E), Tanzania

19.V.1913

Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N	2612, a	N	2612
		RML	111393
	(2612) <u>Rhipicephalus evertsi</u> ♀'s, N's, & L		(2612) 2 ♀, 82 N, 32 L <u>Rhipicephalus evertsi</u>
	(a) <u>Amblyomma variegatum</u>		(a) MISSING
	Cow antelope		Cow antelope
	High plateau of Viregi Shirati near British-German Frontier		High plateau of Viregi, Shirati (01.08 S, 33.59 E), Tanzania
	24.V.1913		24.V.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
N	2613, a, b	N	2613, a, b
		RML	105677
	(2613) <u>Amblyomma variegatum</u>		(2613) 16 ♂, 15 ♀ <u>Amblyomma variegatum</u>
	(a) <u>Rhipicephalus evertsi</u>		(a) 8 ♂, 2 ♀, 18 N <u>Rhipicephalus evertsi</u>
	(b) <u>Rhipicephalus capensis</u>		(b) 10 ♂, 4 ♀ <u>Rhipicephalus longus</u>
	Horse antelope		Horse antelope
	Mori Plain near Utegi		Mori Plain (01.21 S, 33.59 E), Tanzania
	6.V.1913		6.V.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATION

N 2614, a-e

(2614) Rhipicephalus appendiculatus

- (a) Hyalomma aegyptium
- (b) Rhipicephalus sanguineus
- (c) Rhipicephalus simus ♀'s
- (d) Rhipicephalus evertsi ♀
- (e) Amblyomma variegatum ♂

Sheep

Iringa, German E. Africa

1913

Rec'd. from Dr. Kudicke

N 2615

Ornithodoros moubataWest Ussuri, Bukoba-Bezirk,
German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

Some (sex/stage not stated) to
Dr. Lajos Gozony, Univ. Budapest,
Hungary 23.VI.1914.CURRENT STATUS

N 2614

RML 111394

(2614) 10 ♂, 3 ♀ Rhipicephalus
appendiculatus

- (a) 7 ♂, 4 ♀ Hyalomma albiparmatum
- (b) 3 ♂, 2 ♀ Rhipicephalus sanguineus
- (c) 2 ♀ Rhipicephalus simus
- (d) 1 ♀ Rhipicephalus evertsi
- (e) MISSING

Sheep

Iringa (07.46 S, 35.42 E),
Tanzania

1913

Rec'd. from Dr. Kudicke

Vial label for 2614d incorrectly
reads 2614b.

N 2615

RML 111395

6 ♂, 6 ♀, 3 N Ornithodoros moubataWest Ussuri, Bukoba District
(01.35 S, 31.30 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N 2616, a

N 2616, a

RML 111396

(2616) Amblyomma variegatum(2616) 53 ♂, 31 ♀ Amblyomma
variegatum(a) Rhipicephalus appendiculatus(a) 7 ♂, 8 ♀ Rhipicephalus
appendiculatus

Off ?

Off ?

West Ussuri, Bukoba-Bezirk,
German E. AfricaWest Ussuri, Bukoba District
(01.35 S, 31.30 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

Rec'd. from Dr. Kudicke

Three tubes of ticks received from Colonel A. Alcock, F.R.S., London School of Tropical Medicine, Royal Albert Dock, London, E., 3 December, 1913:-

ORIGINAL DETERMINATION

CURRENT STATUS

N	2617	N	2617
		RML	111397
	<u>Amblyomma goeldii</u> 1 ♀		1 ♀ <u>Amblyomma rotundatum</u>
	Toad (big)		Toad
	Condoto, Colombia, S. America		Condoto (05.06 N, 76.37 W) Colombia
	1913		1913
	Dr. H.F.G. Spurrell		Dr. H.F.G. Spurrell
N	2618	N	2618
		RML	111398
	<u>Amblyomma varium</u> 1 ♂		1 ♂ <u>Amblyomma varium</u>
	3-toed sloth		<u>Bradypus tridactylus</u>
	Condoto, Colombia, S. America		Condoto (05.06 N, 76.37 W), Colombia
	1913		1913
	Dr. H.F.G. Spurrell		Dr. H.F.G. Spurrell
			Cited: Robinson (1926: 209).
N	2619	N	2619
		RML	111399
	<u>Argas</u> sp. 1 L		1 L <u>Ornithodoros</u> sp.
	Bat		Bat
	Condoto, Colombia, S. America		Condoto (05.06 N, 76.37 W), Colombia
	Dr. H.F.G. Spurrell		Dr. H.F.G. Spurrell

Ticks received back from the Imperial Bureau of Entomology, London, S.W.
(ex. Report No. 29), 3 December, 1913:-

ORIGINAL DETERMINATION

CURRENT STATUS

N	2620	N	2620
		RML	111400
	<u>Amblyomma humerale</u> 2 ♂'s		2 ♂ <u>Amblyomma humerale</u>
	Turtle		Turtle
	New Amsterdam, Berbice, British Guiana		New Amsterdam (06.15 N, 57.31 W), Guyana
	21.IX.1913		21.IX.1913
	G. E. Bodkin		G. E. Bodkin
	I. B. E. 696		Cited: Santos Dias (1958: 496).
N	2621	N	2621
		RML	111401
	<u>Boophilus australis</u> ? ♀'s		3 ♀ <u>Boophilus microplus</u>
	Toad (<u>Bufo marinus</u>)		<u>Bufo marinus</u>
	Georgetown, British Guiana		Georgetown (06.48 N, 58.10 W), Guyana
	13.IV.1913		13.IV.1913
	G. E. Bodkin		G. E. Bodkin
	I.B.E. 697		

ORIGINAL DETERMINATION

N 2622

Haemaphysalis leachi ♂'s, ♀'s

Dog

Entebbe, Uganda, E. Africa

20.IV.1913

C. C. Gowdey

I.B.E. 705

Some (sex/stage not stated) to
Prof. O. Duboscq, Montpellier,
France 10.II.1914.

N 2623, a

(2623) Rhipicephalus neavei ♂'s, ♀'s
(a) Rhipicephalus supertritus ♂, ♀

Eland

Mwanza River, Shire Valley Nyasaland

VII.1913

S. A. Neave

I.B.E. 715, 715a

CURRENT STATUS

N 2622

RML 111402

1 ♀ Haemaphysalis leachi

Dog

Entebbe (00.04 N, 32.28 E), Uganda

20.IV.1913

C. C. Gowdey

N 2623, a

RML 66683

(2623) 8 ♂, 4 ♀ Rhipicephalus kochi
(a) 3 ♂, 1 ♀ Rhipicephalus supertritus

Taurotragus oryx

Mwanza River (16.09 S, 34.54 E),
Malawi

VII.1913

S. A. Neave

ORIGINAL DETERMINATIONCURRENT STATUS

N 2624

Rhipicephalus neavei ♂'s, ♀'s

Bush-buck

Mwanza River, Shire Valley, Nyasaland

VII.1913

S. A. Neave

I.B.E. 719

N 2624

RML 111403

3 ♂, 9 ♀ Rhipicephalus kochi

Tragelaphus scriptus

Mwanza River (16.09 S, 34.54 E),
Malawi

VII.1913

S. A. Neave

N 2625

Haemaphysalis aciculifer

Reed-buck

Wandara, Gold Coast

16.V.1913

J. J. Simpson

I.B.E. 722

N 2625

RML 87719

1 ♂ Haemaphysalis rugosa Holotype

Probably Redunca arundinum

Wandara (09.02 N, 02.35 W), Ghana

16.V.1913

J. J. Simpson

Cited: Nuttall & Warburton (1915: 413); Santos Dias (1956: 5), original description of H. a. rugosa. Hoogstraal (1972: 970) gave H. rugosa species status.

Three tubes of ticks received from Dr. J. Preston Maxwell, Yungchun, Via Amoy, China, 6 December, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2626	N	2626
		RML	111404
	<u>Boophilus australis</u> ♂'s, ♀'s, N		5 ♂, 41 ♀, 7 N <u>Boophilus microplus</u>
	Cow		Cow
	South Fukien, south of Amoy, China		Fu-Chien Sheng Province (26.00 N, 118.00 E), Peoples Republic of China
	1913		1913
	Rec'd. from Dr. J. Preston Maxwell		Rec'd. from Dr. J. Preston Maxwell
N	2627	N	2627
		RML	111405
	<u>Boophilus australis</u> ♂'s, ♀'s		13 ♂, 47 ♀, 33 N, 4 L <u>Boophilus microplus</u>
	Goat		Goat
	South Fukien, south of Amoy, China		Fu-Chien Sheng Province (26.00 N, 118.00 E), Peoples Republic of China
	1913		1913
	Rec'd. from Dr. J. Preston Maxwell		Rec'd. from Dr. J. Preston Maxwell
N	2628	N	2628
		RML	113744
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s, N's		53 ♂, 90 ♀, 17 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	South Fukien, south of Amoy, China		Fu-Chien Sheng Province (26.00 N, 118.00 E), Peoples Republic of China
	1913		1913
	Rec'd. from Dr. J. Preston Maxwell		Rec'd. from Dr. J. Preston Maxwell

Nine tubes of ticks received from Major R. Cecil Cochrane, A.V.C., Station Veterinary Hospital, Rawalpindi, Punjab, India, 9 December, 1913:-

ORIGINAL DETERMINATION

CURRENT STATUS

N	2629	N	2629	MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s			
	Camel			
	Rawalpindi, Punjab, India			
	X.1913			
	Rec'd. from Major R. C. Cochrane			
N	2630	N	2630	MISSING
	<u>Hyalomma aegyptium</u> ♂, ♀			
	Donkey			
	Rawalpindi, Punjab, India			
	X.1913			
	Rec'd. from Major R. C. Cochrane			
N	2631	N	2631	
		RML	111406	
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		23♂, 4 ♀ <u>Hyalomma dromedarii</u>	
	Bullock		Bullock	
	Rawalpindi, Punjab, India		Rawalpindi (33.36 N, 73.04 E), Pakistan	
	X.1913		X.1913	
	Rec'd. from Major R. C. Cochrane		Rec'd. from Major R. C. Cochrane	

ORIGINAL DETERMINATIONCURRENT STATUS

N	2632	N	2632
		RML	111407
	<u>Hyalomma aegyptium</u> N's		20 N <u>Hyalomma</u> sp.
	Goat		Goat
	Rawalpindi, Punjab, India		Rawalpindi (33.36 N, 73.04 E), Pakistan
	X.1913		X.1913
	Rec'd. from Major R. C. Cochrane		Rec'd. from Major R. C. Cochrane
N	2633	N	2633
		RML	111408
	<u>Argas persicus</u>		6 ♂, 5 ♀, 62 N <u>Argas persicus</u>
	Fowl		Fowl
	Rawalpindi, Punjab, India		Rawalpindi (33.36 N, 73.04 E), Pakistan
	X.1913		X.1913
	Rec'd. from Major R. C. Cochrane		Rec'd. from Major R. C. Cochrane
N	2634	N	2634 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Buffaloes		
	Rawalpindi, Punjab, India		
	X.1913		
	Rec'd. from Major R. C. Cochrane		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2635
Hyalomma aegyptium ♂'s, ♀'s
 Sheep
 Rawalpindi, Punjab, India
 X.1913
 Rec'd. from Major R. C. Cochrane

N 2635 MISSING

N 2636
Rhipicephalus sanguineus ♀, N's
 Dog
 Rawalpindi, Punjab, India
 X.1913
 Rec'd. from Major R. C. Cochrane

N 2636 MISSING

N 2637
Hyalomma aegyptium ♀'s ♀
 Horse
 Rawalpindi, Punjab, India
 X.1913
 Rec'd. from Major R. C. Cochrane

N 2637
 RML 111409
 7 ♂, 1 ♀ Hyalomma anatolicum
anatolicum
 Horse
 Rawalpindi (33.36 N, 73.04 E),
 Pakistan
 X.1913
 Rec'd. from Major R. C. Cochrane

Two tubes of ticks received from L. C. Heath, Esq., Mwengwa, Mumbwa,
N. Rhodesia, B.C. Africa, 9 December 1913:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	2638	N	2638
		RML	111410
	<u>Amblyomma pomposum</u> ♂'s		3 ♂ <u>Amblyomma pomposum</u>
	Roan antelope		<u>Hippotragus equinus</u>
	Shot near Chishila's, Mwengwa, N. Rhodesia		Shot near Chishila's, Mwengwa (15.17 S, 25.59 E), Zambia
	11.X.1913		11.X.1913
	Rec'd. from L. C. Heath		Rec'd. from L. C. Heath
			Cited: Robinson (1926: 100).
N	2639, a	N	2639, a
		RML	111411
	(2639) <u>Amblyomma pomposum</u> ♂'s		(2639) 4 ♂ <u>Amblyomma pomposum</u>
	(a) <u>Rhipicephalus neavei</u> ♂, ♀		(a) 1 ♂, 1 ♀ <u>Rhipicephalus punctatus</u>
	"Kudu"		<u>Tragelaphus strepsiceros</u>
	Near Chikunis, Mwengwa, N. Rhodesia Rhodesia		Near Chikunis (15.10 S, 25.58 E), Mwengwa, Zambia
	13.X.1913		13.X.1913
	Rec'd. from L. C. Heath		Rec'd. from L. C. Heath
	(2639) 2 ♂ mounted in cells on slides II.1915.		Slides missing
	(2639) 2 ♂ to Prof. R. Matheson, Cornell 27.V.1929.		Cited: Robinson (1926: 100).

Three tubes of ticks received from J. Murray, Esq., Agent, Compagnie Générale Frigorifique, Ambodimanga Station, Marovoay, Madagascar, Africa, 10 December, 1913.

ORIGINAL DETERMINATION

CURRENT STATUS

N	2640, a	N	2640
		RML	111412
	(2640) <u>Boophilus australis</u> ♂, ♀'s		(2640) 4 ♀ <u>Boophilus microplus</u>
	(a) <u>Amblyomma variegatum</u> ♀		(a) MISSING
	Cattle		Cattle
	Marovoay, Madagascar		Marovoay (16.06 S, 46.39 E), Democratic Republic of Madagascar
	X.1913		X.1913
	J. Murray		J. Murray
N	2641, a	N	2641
		RML	111413
	(2641) <u>Boophilus australis</u> ♀'s		(2641) 3 ♀ <u>Boophilus microplus</u>
	(a) <u>Amblyomma variegatum</u> ♀		(a) MISSING
	Cattle		Cattle
	Marovoay, Madagascar		Marovoay (16.06 S, 46.39 E), Democratic Republic of Madagascar
	X.1913		X.1913
	J. Murray		J. Murray
N	2642	N	2642 MISSING
	<u>Amblyomma variegatum</u> ♂'s, 1 ♀		
	Cattle		
	Marovoay, Madagascar		
	X.1913		
	J. Murray		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2643

N 2643

RML 111414

Rhipicephalus haemaphysaloides 1 ♂1 ♂ Rhipicephalus haemaphysaloides

Man (Formosan Chinaman)

Homo sapiens

Tainan, Formosa

T'ai-nan (23.00 N, 120.12 E), Taiwan

X.1913

X.1913

Rec'd. from Dr. James L. Maxwell,
E.P.M. Hospital, Tainan, Formosa,
19.XII.1913

Rec'd. from Dr. James L. Maxwell,
E.P.M. Hospital, Tainan, Formosa,
19.XII.1913

[Dr. Maxwell writes as follows regarding this tick: "Formosan Chinaman aged 22 years, male (cow-herd) applied for treatment on account of Splenomegaly and Anaemia - possibly an early stage of a little known but very definite disease - Febrile Tropical Splenomegaly. On undoing his clothes to examine abdomen a tick was found firmly adherent to skin of epigastrium - tick not engorged. Removed and placed in weak formalin.]

Three tubes of ticks received from Dr. Henry S. Hollenbeck, Kamundongo, Bie, Angola (Benguella), West Africa, 19 December, 1913:-

N 2644

N 2644

RML 111415

Ornithodoros moubata2 ♂, 4 ♀ Ornithodoros moubata

Man

Homo sapiens

Angola

Angola

X.1913

X.1913

Rec'd. from Dr. H. S. Hollenbeck

Rec'd. from Dr. H. S. Hollenbeck

ORIGINAL DETERMINATIONCURRENT STATUS

N 2645

Rhipicephalus tricusps 3 ♂, 3 ♀

Rabbit

Angola

X.1913

Rec'd. from Dr. H. S. Hollenbeck

[Doubtfully distinct from R.
lunulatus]

N 2646, a, b

(2646) Amblyomma pomposum ♂'s
(a) Boophilus australis ♀'s
(b) Rhipicephalus evertsi ♀

Cattle

Angola

X.1913

Rec'd. from Dr. H. S. Hollenbeck

N 2645

RML 111416

3 ♂, 3 ♀ Rhipicephalus tricusps

Rabbit

Angola

X.1913

Rec'd. from Dr. H. S. Hollenbeck

N 2646, a, b

RML 111417

(2646) 5 ♂, 1 ♀ Amblyomma pomposum
(a) 5 ♀ Boophilus decoloratus
(b) 1 ♀ Rhipicephalus evertsi

Cattle

Kamundongo now Comundongo (12.30 S,
17.02 E), Angola

X.1913

Rec'd. from Dr. H. S. Hollenbeck

Locality name taken from vial label.
(2646) cited: Santos Dias (1958:
516). (as A. superbum)

Ticks received back from the Imperial Bureau of Entomology (ex Report No. 30),
London, S.W., 31 December, 1913:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	2647	N	2647
		RML	111418
	<u>Rhipicephalus simus</u>		40 ♂, 13 ♀ <u>Rhipicephalus simus</u> 2 ♂ <u>Rhipicephalus sanguineus</u>
	Lioness		<u>Panthera leo</u>
	Shot at Port Herald, Nyasaland		Nsanje (16.55 S, 35.16 E), Malawi
	7.V.1913		7.V.1913
	Dr. J. E. S. Old		Dr. J. E. S. Old
	I.B.E. 727		
N	2648	N	2648
		RML	111419
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		5 ♂, 9 ♀ <u>Rhipicephalus simus</u>
	Dogs		Dogs
	Mwanza River, Shire Valley, Nyasaland		Mwanza River (16.09 S, 34.54 E), Malawi
	VII.1913		VII.1913
	S. A. Neave		S. A. Neave
	I.B.E. 729		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2649

Amblyomma splendidum ♂'s, ♀'s
(different sizes for variation)

Buffalo

Fukian, San Salvador, Portuguese
Congo

1.I.1913

Dr. M. Gamble

I.B.E. 736

(2 ♂, 2 ♀ mounted in cells on
slides V.1915)

N 2649

RML 111420

3 vials containing 34 ♂, 41 ♂, 54 ♀
Amblyomma splendidum

Syncerus caffer

Fukian, São Salvador do Congo
(06.16 S, 14.15 E), Angola

1.I.1913

Dr. M. Gamble

Slides missing
Cited: Robinson (1926: 125).

N 2650

Ornithodoros moubata

Off ?

Congo, Portuguese

1913

Dr. M. Gamble

I.B.E. 739

Under host the word elephant has
been crossed out and "wrong host"
inserted.

N 2650

RML 111421

3 ♂, 3 ♀, 1 N Ornithodoros moubata

Off ?

Angola

1913

Dr. M. Gamble

ORIGINAL DETERMINATIONCURRENT STATUS

N 2651

N 2651

RML 111422

Rhipicephalus capensis ♂'s, ♀'s3 ♂, 1 ♀ Rhipicephalus longus

Pig

Pig

Congo, Portuguese

Angola

1913

1913

Dr. M. Gamble

Dr. M. Gamble

I.B.E. 737

N 2652

N 2652 MISSING

Haemaphysalis leachi ♂'s, ♀'s

Dog

Kibokolo do Zombo, Portuguese Congo

IV-V-1911

Dr. M. Gamble

I.B.E. 740

1 ♂, 1 ♀ to Dr. Lajos Gozony, Univ.
Budapest, Hungary 23.VI.1914.1 ♂, 1 ♀ to Launcelot Harrison,
Australia 9.V.1919.1 ♂, 1 ♀ to Prof. M. Jesus Maynar,
Zaragoza, Spain 10.V.1919.1 ♂, 1 ♀ to Prof. Poulton, Oxford
26.V.1919.1 ♂, 1 ♀ to Prof. E. Hindle, Cambridge
24.IX.1919.1 ♂, 1 ♀ to Major Lothian, School
of Hygiene, Blackpool 25.IX.1919.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2653	N	2653 MISSING
	<u>Ornithodoros megnini</u> nymphs		
	Cattle		
	Kahukii, Oahu, Hawai Islands		
	1.XII.1913		
	Rec'd. from E. M. Ehrhorn, Esq., Division of Entomology, Board of Commissioners of Agriculture & Forestry, Honolulu, Hawai Islands, 23.XII.1913.		
	Seventeen tubes of ticks received from Dr. John Y. Wood, Kaballa, Koinadugu District, Sierra Leone Protectorate, West Africa, 29 December, 1913:-		
N	2654	N	2654 MISSING
	<u>Haemaphysalis leachi</u> ♀		
	Dog, Healthy		
	Mussaiya, Sierra Leone		
	17.XI.1913		
	Rec'd. from J. Y. Wood		
N	2655, a	N	2655, a
		RML	111423
	(2655) <u>Boophilus australis</u> 1 ♂, ♀'s (a) <u>Rhipicephalus falcatus</u> ♂		(2655) 1 ♂, 14 ♀, 1 N <u>Boophilus geigy</u> (a) 1 ♂ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Kombile, Sierra Leone		Kombile (09.41 N, 11.05 E), Sierra Leone
	12.X.1913		12.X.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2656	N	2656
		RML	111424
	<u>Boophilus australis</u> ♂, ♀'s, N's		9 ♀ <u>Boophilus geigy</u>
	Cattle		Cattle
	Simamaia, Sierra Leone		Simamaia, Sierra Leone (locality not verified)
	28.X.1913		28.X.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood
N	2657	N	2657
		RML	111425
	<u>Boophilus australis</u>		19 ♀ <u>Boophilus geigy</u>
	Cattle		Cattle
	Tilia, Sierra Leone		Probably Talia, Sierra Leone (locality not verified; 9 possible localities)
	13.XI.1913		13.XI.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood
N	2658	N	2658
		RML	111426
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s		5 ♂, 4 ♀ <u>Haemaphysalis leachi</u>
	Dog		Dog
	Tilia, Sierra Leone		Probably Talia, Sierra Leone (locality not verified; 9 possible localities)
	13.XI.1913		13.XI.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood
	1 ♀ to Prof. R. Matheson, Cornell 27.V.1929.		Cited: Nuttall & Warburton (1915: 474).
	1 ♀ to Prof. J. Drbohlav, Prague 30.V.1929.		
	1 ♀ to Dr. A. C. Reed, San Francisco 30.V.1929.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2659, a-c	N	2659, a-c
		RML	105782
	(2659) <u>Boophilus australis</u> ♂'s, ♀'s		(2659) 1 ♂, 137 ♀ <u>Boophilus geigy</u>
	(a) <u>Haemaphysalis leachi</u> ♂'s, ♀'s		(a) 1 ♀ <u>Haemaphysalis leachi</u> group
	(b) <u>Amblyomma variegatum</u> ♂, ♀		(b) MISSING
	(c) <u>Rhipicephalus sanguineus</u> ♂, ♀'s		(c) 2 ♂ <u>Rhipicephalus sulcatus</u>
	Cattle		Cattle
	Boulakarafia, Sierra Leone		Boulakarafia, Sierra Leone (locality not verified)
	11.X.1913		11.X.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
			(2659a) cited: Nuttall & Warburton (1915: 474).
N	2660	N	2660
		RML	111427
	<u>Boophilus australis</u> 2 ♀'s		2 ♀ <u>Boophilus geigy</u>
	Cattle		Cattle
	Kaballa, Sierra Leone		Kabala (09.35 N, 11.33 W), Sierra Leone
	20.X.1913		20.X.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2661	N	2661
		RML	111428
	<u>Boophilus australis</u> ♀'s		100 ♀ <u>Boophilus geigy</u>
	Cattle		Cattle
	Kamba, Sierra Leone		Kamba, Sierra Leone (locality not verified; 5 possible localities)
	16.XI.1913		16.XI.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2662, a	N	2662
		RML	111429
	(2662) <u>Boophilus australis</u> 2 ♀		(2662) 18 ♀ <u>Boophilus geigy</u>
	(a) <u>Amblyomma variegatum</u> ♂		(a) MISSING
	Cattle		Cattle
	Dunkiawallia, Sierra Leone		Dunkiawallia, Sierra Leone (locality not verified)
	24.X.1913		24.X.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood
			Both catalogue and vial label give the <u>Boophilus</u> collection as containing 2 ♀.
N	2663	N	2663 MISSING
	<u>Haemaphysalis leachi</u> ♀'s		
	Dog		
	Kaballa, Sierra Leone		
	20.X.1913		
	Rec'd. from Dr. J. Y. Wood		
N	2664, a-c	N	2664, a, b
		RML	111430
	(2664) <u>Boophilus australis</u> ♀'s		(2664) 41 ♀, 1 N <u>Boophilus geigy</u>
	(a) <u>Rhipicephalus falcatus</u> 2 ♂, 1 ♀		(a) 2 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	(b) <u>Rhipicephalus appendiculatus</u> 2 ♂, 1 ♀		(b) 2 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	(c) <u>Rhipicephalus sanguineus</u>		(c) MISSING
	Cattle		Cattle
	Kamaducta, Sierra Leone		Kamaducta, Sierra Leone (locality not verified)
	6.XI.1913		6.XI.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2665, a	N	2665a
		RML	111431
	(2665) <u>Hyalomma aegyptium</u> ♂		(2665) MISSING
	(a) <u>Rhipicephalus falcatus</u> ♀		(a) 1 ♀ <u>Rhipicephalus lunulatus</u>
	"self"		<u>Homo sapiens</u>
	Ninkintumania, Sierra Leone		Ninkintumania, Sierra Leone (locality not verified)
	6.X.1913		6.X.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood
N	2666, a, b	N	2666, a
		RML	111432
	(2666) <u>Boophilus australis</u> ♂'s, ♀'s, N's		(2666) 78 ♀, 2 N <u>Boophilus geigy</u>
	(a) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s		(a) 4 ♀, 2 ♀ <u>Rhipicephalus senegalensis</u>
	(b) <u>Rhipicephalus sanguineus</u> ♂, ♀		(b) MISSING
	Cow, sick		Cow, sick
	Kamagoto, Sierra Leone		Kamagoto, Sierra Leone (locality not verified)
	1.XI.1913		1.XI.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood
N	2667, a, b	N	2667, a, b
		RML	111433
	(2667) <u>Boophilus australis</u> ♂'s, ♀'s, N's		(2667) 5 ♂, 163 ♀, 2 N <u>Boophilus geigy</u>
	(a) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s		(a) 10 ♂, 14 ♀ <u>Rhipicephalus senegalensis</u>
	(b) <u>Rhipicephalus lunulatus</u> ♂'s, ♀'s		(b) 1 ♂ <u>Rhipicephalus lunulatus</u>
	Cattle, healthy		Cattle, healthy
	Ninkintumania, Sierra Leone		Ninkintumania, Sierra Leone (locality not verified)
	5.X.1913		5.X.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N 2668

Boophilus australis ♂, ♀'s

Sheep

Ninkintumania, Sierra Leone

6.X.1913

Rec'd. from Dr. J. Y. Wood

N 2668

RML 111434

2 ♂, 21 ♀, 2 N Boophilus geigy

Sheep

Ninkintumania, Sierra Leone
(locality not verified)

6.X.1913

Rec'd. from Dr. J. Y. Wood

N 2669, a, b

(2669) Boophilus australis ♂'s, ♀'s
(a) Rhipicephalus falcatus ♂'s, ♀'s
(b) Amblyomma variegatum ♂

Cattle

Serakoria, Sierra Leone

9.X.1913

Rec'd. from Dr. J. Y. Wood

N 2669, a

RML 111435

(2669) 1 ♂, 67 ♀, Boophilus geigy
(a) 3 ♂, 2 ♀ Rhipicephalus senegalensis
(b) MISSING

Cattle

Possibly Serakolia (09.32 N, 11.05 W),
Sierra Leone

9.X.1913

Rec'd. from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N 2670, a-d

(2670) Boophilus australis ♂'s, ♀'s

(a) Rhipicephalus falcatus ♂'s, ♀'s

(b) Rhipicephalus lunulatus ♂

(c) Amblyomma splendidum ♂'s

(d) Amblyomma variegatum ♂'s

Cattle

Kamagoto, Sierra Leone

1.XI.1913

Rec'd. from Dr. J. Y. Wood

N 2670, a-c

RML 90931

(2670) 1 ♂, 238 ♀, 1 N Boophilus geigy

(2670) 1 ♂, 3 ♀ Boophilus annulatus

(a) 9 ♂, 16 ♀ Rhipicephalus
senegalensis

(a) 1 ♀ Rhipicephalus sanguineus

(b) 1 ♂ Rhipicephalus lunulatus

(c) 2 ♂ Amblyomma splendidum

(d) MISSING

Cattle

Kamagoto, Sierra Leone
(locality not verified)

1.XI.1913

Rec'd. from Dr. J. Y. Wood

The R. senegalensis collection cited:
Clifford & Anastos (1962: 21).
The B. annulatus and B. geigy (as B. decoloratus) cited by Hoogstraal
(1954b: 276).

N 2671

Boophilus australis ♀'s

Cow

Kwei Chow Fu, Szechuan, China

8.XII.1913

Rec'd. from S. A. Stericker, Esq.,
Szechuan, West China,
7 January 1914.

N 2671

RML 111436

4 ♀ Boophilus microplus

Cow

Feng-Chieh (31.03 N, 109.31 E),
Szechwan Province, Peoples Republic
of China

8.XII.1913

Rec'd. from S. A. Stericker, Esq.,
Szechuan, West China,
7 January 1914.

Four tubes of ticks received from Albert F. Eichhorn, Esq., Friedrich Wilhelmshaven, German New Guinea, 29 December, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2672	N	2672
		RML	111437
	<u>Ixodes eichhorni</u> 1 ♀ TYPE		1 ♀ <u>Ixodes eichhorni</u> Lectotype.
	Man ("self")		<u>Homo sapiens</u>
	Rook Island		Rook Island now known as Umboi Island (05.36 S, 148.00 E), Papua New Guinea
	IX.1913		IX.1913
	A. F. Eichhorn		A. F. Eichhorn
			Nuttall (1916: 295) original description. Lectotype designated: Keirans & Brewster (1981: 165, 166).
N	2673	N	2673
		RML	111438
	<u>Haemaphysalis s-----a</u> var. <u>p-----s</u> 3 ♂, 1 ♀, 5 N TYPES		3 ♂, 1 ♀, 5 N <u>Haemaphysalis novaeguineae</u>
	[Publication of the above name would constitute a <u>nomen nudum</u> - J.E.K.]		
	Bandicoot		Bandicoot
	Manus, Admiralty Islands		Manus Island (02.05 S, 147.00 E), Admiralty Islands
	20.IX.1913		20.IX.1913
	A. F. Eichhorn		A. F. Eichhorn
			Cited and figured: Nuttall & Warburton (1915: 450, 451). These are not type specimens - see Roberts (1963: 57).
N	2674	N	2674 MISSING
	<u>Aponomma</u> sp. 2 ♂'s		
	Iguana		
	Rook Island		
	25.VII.1913		
	A. F. Eichhorn		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2675

N 2675

RML 111439

Ixodes eichhorni 2 N's
TYPES (unengorged)2 N Ixodes eichhorni Paralectotypes

Kingfisher

Kingfisher

Manus, Admiralty Islands

Manus Island (02.05 S, 147.00 E),
Admiralty Islands

IX-X.1913

IX-X.1913

A. F. Eichhorn

A. F. Eichhorn

Nuttall (1916: 295) original description. Paralectotypes designated:
Keirans & Brewster (1981: 165, 166).Two tubes of ticks received from Professor L. E. Migone, Asuncion, Paraguay,
South America, 8 January, 1914:-

N 2676

N 2676

RML 111440

Ornithodoros rostratus3 ♂, 8 ♀ Ornithodoros rostratus

San Salvador, Paraguay

San Salvador (22.51 S, 57.48 W),
Paraguay

17.I.1913

17.I.1913

Rec'd from Prof. Migone

Rec'd from Prof. Migone

ORIGINAL DETERMINATIONCURRENT STATUS

N	2677	N	2677 MISSING
	<u>Boophilus australis</u> 2 ♂, 1 ♀, N's		
	Cattle		
	Asuncion, Paraguay		
	18.XII.1913		
	With tristeza (<u>Piroplasma bigeminum</u>) "Disease doesn't exist in Paraguay, when it appears it is in animals introduced from Buenos Aires, Santa Fe or provinces of S. Argentina."		
	Ticks received back from the Imperial Bureau of Entomology (ex. Report No. 31), London S. W., 20 January, 1914:-		
N	2678	N	2678 MISSING
	<u>Amblyomma variegatum</u> ♂'s		
	Cattle		
	Antigua, West Indies		
	VI.1913		
	P. T. Saunders		
	I.B.E. 743		
N	2679	N	2679 MISSING
	<u>Amblyomma variegatum</u> ♀'s		
	Cattle		
	Antigua, West Indies		
	VI.1913		
	P. T. Saunders		
	I.B.E. 744		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2680

Rhipicephalus sanguineus ♂'s, ♀'s

Dogs

Antigua, West Indies

14.VI.1913

P. T. Saunders

I.B.E. 745

N 2680

RML 111441

4 ♂, 4 ♀ Rhipicephalus sanguineus

Dogs

Antigua (17.03 N, 61.48 W),
West Indies

14.VI.1913

P. T. Saunders

N 2681

Dermacentor nitens ♂'s, ♀'s, N, L

Horse

Montserrat, West Indies

9.VI.1913

P. T. Saunders

I.B.E. 751

N 2681

RML 111442

5 ♂, 1 ♀, 2 N, 2 L Anocentor nitens

Horse

Montserrat (16.45 N, 62.12 W),
West Indies

9.VI.1913

P. T. Saunders

N 2682

Dermacentor nitens 1 ♂, 4 ♀

Donkey

Montserrat, West Indies

10.VI.1913

P. T. Saunders

I.B.E. 51

N 2682

RML 111443

1 ♂, 4 ♀ Anocentor nitens

Donkey

Montserrat (16.45 N, 62.12 W),
West Indies

10.VI.1913

P. T. Saunders

ORIGINAL DETERMINATIONCURRENT STATUS

N	2683	N	2683 MISSING
	<u>Boophilus australis</u> 2 ♂, 2 ♀		
	Cattle		
	St. Kitts, West Indies		
	28.VII.1913		
	P. T. Saunders		
	I.B.E. 752		
N	2684	N	2684
		RML	111444
	<u>Argas</u> sp. 1 larva		1 L <u>Ornithodoros</u> sp.
	Rat (<u>Mus norvegicus</u>)		<u>Rattus norvegicus</u>
	St. Vincent, West Indies		Saint Vincent (13.15 N, 61.12 W), West Indies
	8.VIII.1913		8.VIII.1913
	P. T. Saunders		P. T. Saunders
	I.B.E. 757		
N	2685	N	2685
		RML	111445
	<u>Amblyomma dissimile</u> 4 ♂'s, 1 N		4 ♂, 1 N <u>Amblyomma dissimile</u>
	Coral snake		<u>Elaps</u> sp.
	British Guiana		Guyana
	6.VI.1913		6.VI.1913
	G. E. Bodkin		G. E. Bodkin
	I.B.E. 761		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2686

N 2686

RML 111446

Amblyomma dissimile ♂'s12 ♂ Amblyomma dissimileSnake (Boa constrictor)Boa constrictor

South America

South America

13.I.1914

13.I.1914

[Z. S. No. 41]

Two tubes of ticks received from Dr. A. Carini, Instituto Pasteur de S. Paulo, Avenida Paulista 158, São Paulo, Brazil, South America, 26 January, 1914:-

N 2687

N 2687

RML 111447

Ixodes loricatus 1 ♀1 ♀ Ixodes loricatus

Gamba

Chironectes minimus

Brazil, South America

Brazil

XII.1913

XII.1913

Dr. A. Carini

Dr. A. Carini

Cited: Nuttall (1916: 329).

N 2688

N 2688

RML 111448

Amblyomma ovale 1 ♂1 ♂ Amblyomma striatum

Dog

Dog

Brazil, South America

Brazil

I.1914

I.1914

Rec'd. from Dr. A. Carini

Rec'd. from Dr. A. Carini

Cited: Robinson (1926: 29).
(as A. ovale).

Three tubes of ticks received from Dr. T. L. Bancroft, Eidsvold, Queensland, Australia, 2 February, 1914:

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2689	N	2689
		RML	111449
<u>Haemaphysalis bancrofti</u> 2 ♀'s, L, eggs TYPES		2 ♀, 223 L <u>Haemaphysalis bancrofti</u> Paralectotypes	
Wallaby (<u>Macropus dorsalis</u>)		<u>Macropus dorsalis</u>	
Eidsvold, Queensland, Australia		Eidsvold (25.22 S, 151.07 E), Queensland, Australia	
XII.1913		XII.1913	
Dr. T. L. Bancroft		Dr. T. L. Bancroft	
[7 larvae in balsam on a slide]		Larval total includes the 7 slide mounted specimens Nuttall & Warburton (1915: 487) original description. Paralectotypes designated: Keirans & Brewster (1981: 159).	
N	2690a-c	N	2690a-c
		RML	111450
(a) <u>Aponomma decorosum</u> 2 ♀'s (b?) <u>Amblyomma albolimbatum</u> (c) <u>Aponomma trimaculatum</u> 1 ♀		(a) 2 ♀ <u>Aponomma decorosum</u> (b?) 3 ♀ <u>Amblyomma moreliae</u> (c) 1 ♀ <u>Aponomma trimaculatum</u>	
<u>Varanus varius</u>		<u>Varanus varius</u>	
Eidsvold, Queensland, Australia		Eidsvold (25.22 S, 151.07 E), Queensland, Australia	
25.X.1913		25.X.1913	
Dr. T. L. Bancroft		Dr. T. L. Bancroft	
N2690b? L.E.R. det. 1926		(2690b) cited and figured: Robinson (1926: 150).	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2691, a	N	2691, a
		RML	111451
	(2691) <u>Haemaphysalis bancrofti</u> TYPES 6 ♂, 3 ♀, 2 N		(2691) 6 ♂, 3 ♀, 2 N <u>Haemaphysalis bancrofti</u> Paralectotypes
	(a) <u>Boophilus australis</u> ♀'s, N's		(a) 3 ♀, 5 N <u>Boophilus microplus</u>
	Off ?		Off ?
	Eidsvold, Queensland, Australia		Eidsvold (25.22 S, 151.07 E), Queensland, Australia
	1913		1913
	Dr. T. L. Bancroft		Dr. T. L. Bancroft
			Nuttall & Warburton (1915: 487) original description. Paralectotypes designated: Keirans & Brewster (1981: 159).
N	2692	N	2692
		RML	111452
	<u>Haemaphysalis cuspidata</u> 1 ♀, 7 N's, 4 L TYPES		1 ♀, 7 N, 3 L <u>Haemaphysalis cuspidata</u>
	<u>Paradoxurus niger</u>		<u>Paradoxurus hermaphroditus</u>
	Colombo, Ceylon		Colombo (06.56 N, 79.51 E), Sri Lanka
	9.XII.1909		9.XII.1909
	Dr. A. Willey		Dr. A. Willey
	[1 N in balsam on a slide]		♀ vulva removed and mounted on a slide. 7 N total includes one mounted on a slide. Warburton (1910: 401), original description. Cited: Nuttall & Warburton (1915: 439, 440, figs. 369, 370).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2693

N 2693

RML 111453

Argas persicus69 ♂, 52 ♀, 32 N Argas persicus

Fowls

Fowls

Sohawa, Jhelum District, Punjab,
IndiaEither Sohawa (32.51 N, 73.00 E) or
(33.08 N, 73.26 E), Pakistan

XII.1913

XII.1913

Rec'd. from H. E. Cross, Esq., B. Sc.,
etc. Camel Specialist,
3 February 1914.Rec'd. from H. E. Cross, Esq., B. Sc.,
etc. Camel Specialist,
3 February 1914.Some (sex/stage not stated) to Prof.
O. Duboscq, Montpellier, France
10.II.1914.Six tubes of ticks received from Professor W. Rae Sheniffs (Professor of
Zoology), Madras Christian College, Balfour Hall, Kilpank, Madras W., India,
2 February, 1914:-

N 2694

N 2694 MISSING

Rhipicephalus sanguineus ♂'s, ♀'s

Dog

Kilpank, Madras, W., India

1913

Rec'd. from W. Rae Sheniffs

N 2695

N 2695

RML 111454

Rhipicephalus sanguineus eggs1 vial of eggs Rhipicephalus sanguineus

Dog

Dog

Kilpank, Madras, W. India

Kilpank, Madras, India (locality
not verified)

1913

1913

Rec'd. from W. Rae Sheniffs

Rec'd. from W. Rae Sheniffs

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2696	N	2696
		RML	111455
	<u>Rhipicephalus sanguineus</u> larvae		191 L <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Kilpank, Madras, W., India		Kilpank, Madras, India (locality not verified)
	1913		1913
	Rec'd. from W. Rae Sheniffs		Rec'd. from W. Rae Sheniffs
N	2697	N	2697
		RML	111456
	<u>Aponomma gervaisi</u> ♂'s		9 ♂ <u>Aponomma gervaisi</u>
	<u>Varanus bengalensis</u>		<u>Varanus bengalensis</u>
	Kilpank, Madras W., India		Kilpank, Madras, India (locality not verified)
	1913		1913
	Rec'd. from W. Rae Sheniffs		Rec'd. from W. Rae Sheniffs
N	2698	N	2698
		RML	111457
	<u>Aponomma gervaisi</u> ♂'s, ♀'s, N's		14 ♂, 3 ♀, 5 N <u>Aponomma gervaisi</u>
	<u>Varanus bengalensis</u>		<u>Varanus bengalensis</u>
	Kilpank, Madras W., India		Kilpank, Madras, India (locality not verified)
	1913		1913
	Rec'd. from W. Rae Sheniffs		Rec'd. from W. Rae Sheniffs
	1 ♂, 1 ♀, L's to Prof. E. Malvoz, Liège 30.V.1929.		
	1 ♂, ♀'s to E. T. Boardman, Univ. Florida, Gainesville 30.V.1929.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2699

N 2699

RML 111458

Aponomma laeve var. paradoxum
5 ♂, 1 ♀, 1 N5 ♂, 1 ♀, 2 N Aponomma pattoniCommon rat snake (Zamenis mucosus)Ptyas mucosus

Kilpank, Madras W., India

Kilpank, Madras, India (locality
not verified)

1913

1913

Rec'd. from W. Rae Sheniffs

Rec'd. from W. Rae Sheniffs

Three tubes of ticks received from L. C. Heath, Esq., Mwengwa, Mumbwa,
N. Rhodesia, B. C. Africa, 4 February, 1914:-

N 2700

N 2700

RML 111459

Rhipicephalus sulcatus 4 ♀'s1 ♂, 1 ♀ Rhipicephalus sulcatus
2 ♂ Rhipicephalus sanguineus

Hare

Lepus sp.Shot at Mwengwa Station,
N. RhodesiaShot at Mwengwa (15.17 S, 25.59 E),
Zambia

XII.1913

XII.1913

Rec'd. from L. C. Heath

Rec'd. from L. C. Heath

ORIGINAL DETERMINATIONCURRENT STATUS

N	2701, a, b	N	2701
		RML	111460
	(2701) <u>Rhipicephalus sulcatus</u> 2 ♂, 1 ♀		(2701) 2 ♂, 1 ♀ <u>Rhipicephalus sulcatus</u>
	(a) <u>Ixodes pilosus</u> 2 ♀		(a) MISSING
	(b) <u>Amblyomma variegatum</u> N		(b) MISSING
	Hartebeest		Probably <u>Alcelaphus lichtensteini</u>
	Near Mwengwa Station, N. Rhodesia		Near Mwengwa (15.17 S, 25.59 E), Zambia
	24.XII.1913		24.XII.1913
	Rec'd. from L. C. Heath		Rec'd. from L. C. Heath
N	2702, a	N	2702, a
		RML	105697
	(2702) <u>Ixodes pilosus</u> 1 ♂, 2 ♀		(2702) 1 ♂, 1 ♀ <u>Ixodes cavipalpus</u>
	(a) <u>Rhipicephalus neavei</u> 1 ♂, 1 ♀		(2702) 1 ♀ <u>Ixodes pilosus</u>
	(not typical)		(a) 1 ♂, 1 ♀ <u>Rhipicephalus punctatus</u>
	Grysbock		<u>Raphicerus sharpei</u>
	Shot at Mwengwa Station, N. Rhodesia		Shot at Mwengwa (15.17 S, 25.59 E), Zambia
	XII.1913		XII.1913
	Rec'd. from L. C. Heath		Rec'd. from L. C. Heath
			Although far from the known range of <u>I. pilosus</u> , this 2702 female looks like typical South African <u>I. pilosus</u> .
			(2702) cited: Nuttall (1916: 330).

Two Tubes of ticks received from Dr. H. de Beaurepaire Aragão, Instituto de Manguinhos, Rio de Janeiro, Brazil, South America, 4 February, 1914:-

ORIGINAL DETERMINATION

CURRENT STATUS

N 2703

N 2703

RML 111461

Amblyomma rotundatum 1 ♀

1 ♀ Amblyomma rotundatum

Toad

Toad

Rio de Janeiro, Brazil

Rio de Janeiro (22.54 S, 43.14 W),
Brazil

8.I.1914

8.I.1914

Rec'd. from Dr. H. de B. Aragão

Rec'd. from Dr. H. de B. Aragão

Began to oviposit 12.I.1914

Also one vial of eggs in a separate
jar containing eggs from numerous
species.

2703 L.E.R. redet. 1926.

N 2704

N 2704

RML 111462

Amblyomma rotundatum 1 ♀

1 ♀, 32 L Amblyomma rotundatum

Toad

Toad

Rio de Janeiro, Brazil

Rio de Janeiro (22.54 S, 43.14 W),
Brazil

12.I.1914

12.I.1914

Rec'd. from H. de B. Aragão

Rec'd. from H. de B. Aragão

Started ovipositing during transit.
[Nos. 2673 & 2674 used for raising
experiments.] L.E. Robinson
det. 1926.

The 32 L were raised in Cambridge,
England.
Cited: Robinson (1926: 169).

Six tubes of ticks received from Herrn Professor Dr. Knuth, Hygienisches Institut der Tierärztlichen Hochschule, Luisenstr. 56, Berlin N.W. 6, Germany, 9 February, 1914:-

ORIGINAL DETERMINATIONCURRENT STATUS

N 2705

N 2705

RML 111464

Haemaphysalis cinnabarina 1 ♂, 2 ♀
[also 1 ♀ with small leg IV in
sep. tube]

1 ♂, 3 ♀ Haemaphysalis punctata

Dairy cattle

Cattle, dairy

Norderney

Norderney (53.42 N, 07.09 E),
Federal Republic of Germany

30.X.1913

30.X.1913

Rec'd. from Dr. Knuth

Rec'd. from Dr. Knuth

Knuth No. 1

Cited: Nuttall & Warburton
(1915: 386).

N 2706

N 2706

RML 111465

Haemaphysalis cinnabarina 2 ♂, 1 ♀2 ♂, 1 ♀ Haemaphysalis punctata

Cattle

Cattle

Island of Juist

Island of Juist (53.41 N, 07.00 E),
Federal Republic of Germany

22.XI.1913

22.XI.1913

Rec'd. from Dr. Knuth

Rec'd. from Dr. Knuth

Knuth No. 3.

Cited & figured: Nuttall &
Warburton (1915: 382, 386).

Vulva of ♀ mounted on a slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2707	N	2707
		RML	111466
	<u>Haemaphysalis cinnabarina</u> 3 ♂, 2 ♀		3 ♂, 3 ♀ <u>Haemaphysalis punctata</u>
	Cattle		Cattle
	Sportplatz, Norderney		Sportplatz, Norderney (53.42 N, 07.09 E), Federal Republic of Germany
	3.XI.1913		3.XI.1913
	Rec'd. from Dr. Knuth		Rec'd. from Dr. Knuth
	Knuth No. 6.		Cited: Nuttall & Warburton (1915: 125).
N	2708	N	2708
		RML	111467
	<u>Haemaphysalis cinnabarina</u> 5 ♂'s (vary!)		5 ♂ <u>Haemaphysalis punctata</u>
	Cattle		Cattle
	Kassö-Feld, Kreis Apenrade		Kassö-Feld, Kreis Apenrade, Federal Republic of Germany (locality not verified)
	IX.1912		IX.1912
	Rec'd. from Dr. Knuth		Rec'd. from Dr. Knuth
	Knuth No. 7.		Cited & figured: Nuttall & Warburton (1915: 381, 385).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2709

Haemaphysalis cinnabarina 1 ♂
(small!)

Cattle

Bau, Kreis Tondern

IX.1912

Rec'd. from Dr. Knuth

Knuth No. 10.

N 2709

RML 111468

1 ♂ Haemaphysalis punctata

Cattle

Bau (51.09 N, 06.09 E), Kreis
Tondern, Federal Republic of
Germany

IX.1912

Rec'd. from Dr. Knuth

Cited: Nuttall & Warburton
(1915: 385).

N 2710

Haemaphysalis cinnabarina 2 ♂
(average size!)

Cattle

Kassö-Hof, Kreis Apenrade

XI.1912

Rec'd. from Dr. Knuth

Knuth No. 14.

N 2710

RML 111469

2 ♂ Haemaphysalis punctata

Cattle

Kassö-Hof, Kreis Apenrade,
Federal Republic of Germany
(locality not verified)
XI.1912

Rec'd. from Dr. Knuth

Cited: Nuttall & Warburton
(1915: 385).

Ticks received from Dr. J. R. Allin, West African Medical Staff (posted from Beausite, Rushbrooke, Co. Cork, Ireland), 6 February, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2711	N	2711
		RML	111470
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		17 ♂, 8 ♀ <u>Amblyomma variegatum</u>
	Hausa cattle		Cattle, Hausa
	Obudu, Eastern Province of N. Nigeria, West Africa		Obudu (06.40 N, 09.10 E), South-Eastern Prov., Nigeria
	8.VII.1913		8.VII.1913
	J. R. Allin		J. R. Allin
N	2712	N	2712
		RML	90807
	<u>Boophilus australis</u> ♂'s, ♀'s		6 ♀ <u>Boophilus annulatus</u> 2 ♂, 27 ♀ <u>Boophilus decoloratus</u>
	Hausa cattle		Cattle, Hausa
	Obudu, Eastern Province of N. Nigeria, West Africa		Obudu (06.40 N, 09.10 E), South-Eastern Prov., Nigeria
	8.VII.1913		8.VII.1913
	J. R. Allin		J. R. Allin
			2 ♀ <u>Boophilus annulatus</u> from this lot are in the Dr. H. Hoogstraal collection, NAMRU 3, Cairo, Egypt.
N	2713	N	2713
		RML	111471
	<u>Rhipicephalus falcatus</u> 4 ♂, 1 ♀		4 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Hausa cattle		Cattle, Hausa
	Obudu, Eastern Province of N. Nigeria, West Africa		Obudu (06.40 N, 09.10 E), South-Eastern Prov., Nigeria
	8.VII.1913		8.VII.1913
	J. R. Allin		J. R. Allin

ORIGINAL DETERMINATIONCURRENT STATUS

N 2714

N 2714

RML 111472

Dermacentor albipictus 1 ♂, 1 ♀1 ♂, 1 ♀ Dermacentor albipictus

Horse

Horse

Honolulu

Honolulu (21.19 N, 157.52 W),
Hawaii, U.S.A.

7.I.1911

7.I.1911

Dr. S. Hadwen

Dr. S. Hadwen

N 2715

N 2715

RML 111473

Haemaphysalis formosensis Nn., 1 ♂
CO-TYPE!1 ♂ Haemaphysalis formosensis
SyntypeDog (Canis familiaris)Dog (Canis familiaris)

Kosempo, Formosa, Japan

Kosempo, Taiwan (locality not
verified)

IV.1912

IV.1912

Presented by Professor L. G. Neumann
(Toulouse) 13 February 1914Presented by Professor L. G.
Neumann (Toulouse) 13 February 1914

(Neumann Cat. No. 1792).

Neumann (1913: 35), original
description.
Cited: Nuttall & Warburton
(1915: 402).

Ticks received back from the Imperial Bureau of Entomology (ex. Report No. 32), London, S. W., 24 February, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2716	N	2716
		RML	111474
	<u>Amblyomma cohaerens</u> ♂'s, ♀'s		6 ♀ <u>Amblyomma cohaerens</u>
	Buffalo		<u>Syncerus caffer</u>
	Chagwe, Uganda, E. Africa		Chagwe, Uganda (locality not verified)
	10.XI.1913		10.XI.1913
	C.E.H. Brogan coll (No. 3726).		C.E.H. Brogan coll (No. 3726).
	I.B.E. No. 765		Cited: Robinson (1926: 110).
N	2717	N	2717
		RML	111475
	<u>Amblyomma tholloni</u> ♂'s, 1 ♀		7 ♂, 1 ♀ <u>Amblyomma tholloni</u>
	Elephant		<u>Loxodonta africana</u>
	Portuguese Congo, Central Africa		Angola
	1909-1910		1909-1910
	Dr. Mercier Gamble		Dr. Mercier Gamble
	I.B.E., 775.		Cited: Robinson (1926: 253).
N	2718	N	2718 MISSING
	<u>Aponomma exornatum</u> 1 ♀		
	Large lizard		
	Uganda, E. Africa		
	1913		
	Dr. H. B. Owen		
	I.B.E. 776.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2719	N	2719
		RML	111476
	<u>Ixodes schillingsi</u> 1 ♀		1 ♀ <u>Ixodes schillingsi</u>
	Colobus monkey		<u>Colobus</u> sp.
	Nairobi, B.E. Africa		Nairobi (01.17 S, 36.49 E), Kenya
	1913		1913
	T. J. Anderson		T. J. Anderson
	I.B.E. 777		Cited: Nuttall (1916: 333).
N	2720	N	2720
		RML	111477
	<u>Boophilus annulatus</u> ? ♀'s		10 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Fray Bentos, Republic of Uruguay, South America		Fray Bentos (33.08 S, 58.18 W), Uruguay
	I.1913		I.1913
	Rec'd. from Dr. Breitung, 23.II.1914.		Rec'd. from Dr. Breitung, 23.II.1914.
N	2721	N	2721
		RML	111478
	<u>Boophilus australis</u> ♂'s, ♀'s		2 ♂, 12 ♀ <u>Boophilus microplus</u>
	Buffalo (<u>Buffelus indicus</u>)		<u>Bubalus bubalis</u>
	Thai-ha-ap, près Hanoi, Tonkin, French Indo-China		Thai-Ha-Ap (21.00 N, 105.50 E), Vietnam
	XII.1913		XII.1913
	Rec'd. from Dr. A. Gauducheau, Directeur de l'Institut Vaccinal de Thai-ha-ap, près Hanoi, 25 February, 1914.		Rec'd. from Dr. A. Gauducheau, Directeur de l'Institut Vaccinal de Thai-ha-ap, près Hanoi, 25 February, 1914.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2722, a	N	2722
		RML	111479
	(2722) <u>Ixodes putus</u> ♀		(2722) 1 ♀ <u>Ixodes uriae</u>
	(a) <u>Ixodes unicavatus</u> N		(a) MISSING
	Albatros (<u>Diomedea exulans</u>)		<u>Diomedea exulans</u>
	Antipodes Island, S. Pacific Ocean		Antipodes Islands (49.40 S, 178.47 E), New Zealand
	1907		1907
	Professor W. B. Benham		Professor W. B. Benham
	(Rec'd. from Professor Chas. Chilton, Canterbury College, Christchurch, New Zealand 23.XI.1913.).		(2722a) A note by L. J. Dumbleton found in the <u>Ixodes unicavatus</u> jar states that the specimen is a nymph of <u>Ixodes auritulus</u> .
			(2722) cited: Nuttall (1916; 330).
N	2723	N	2723
		RML	111480
	<u>Hyalomma aegyptium</u> 4 ♂, 1 ♀		4 ♂, 1 ♀ <u>Hyalomma dromedarii</u>
	Horses		Horses
	Bellary, Madras, South India		Bellary (15.09 N, 76.56 E), India
	II.1914		II.1914
	Rec'd. from Major R. L. Cranford A.V.C., Station Veterinary Hospital, Bangalore, S. India, 2 March, 1914.		Rec'd. from Major R. L. Cranford A.V.C., Station Veterinary Hospital, Bangalore, S. India, 2 March, 1914.
	[Major Cranford writes (12.II.1914):- "There had been no outbreak of disease among horses & no unusual amount of sickness among them at the time these ticks were collected I should be glad to hear from you as to the name of the ticks sent."].		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2724

Ixodes hexagonus nymph

Otter

No other data.

Rec'd. 27.II.1914

Rec'd. from Mr. Hony, Cambridge

N 2724

RML 111481

1 N Ixodes hexagonusLutra lutraCambridge (52.13 N, 00.08 E),
England

Rec'd. 27.II.1914

Rec'd. from Mr. Hony, Cambridge

Cited: Nuttall (1916: 328) who
gave the locality as Cambridge.

Three tubes of ticks received from Dr. H. A. A. Nicholls, C.M.G., Senior
Medical Officer, Kingsland House, Dominica, West Indies, 3 March, 1914:-

N 2725

Rhipicephalus sanguineus ♂'s, ♀'s,
N's

Dogs

Roseau District, Dominica

I.1914

Rec'd. from Dr. H.A.A. Nicholls

N 2725

RML 111482

11 ♂, 36 ♀, 5 N Rhipicephalus
sanguineus

Dogs

Roseau District, Dominica (15.30 N,
61.20 W), West Indies

I.1914

Rec'd. from Dr. H.A.A. Nicholls

ORIGINAL DETERMINATIONCURRENT STATUS

N	2726	N	2726 MISSING
	<u>Boophilus australis</u> ♂'s, ♀'s		
	Cattle		
	Lasoye District, Dominica		
	II.1914		
	Rec'd. from Dr. H.A.A. Nicholls		
	1 ♂, 2 ♀ to J. de Meza, Zomba, Nyasaland.		
N	2727	N	2727
	<u>Boophilus australis</u> ♀'s	RML	111483
	Cattle		31 ♀ <u>Boophilus microplus</u>
	Roseau District, Dominica		Cattle
	I.1914		Roseau District, Dominica (15.30 N, 61.20 W), West Indies
	Rec'd. from Dr. H.A.A. Nicholls		I.1914
			Rec'd. from Dr. H.A.A. Nicholls
N	2728	N	2728
	<u>Boophilus annulatus</u> ? ♀'s	RML	111484
	Horse		9 ♀ <u>Boophilus annulatus</u>
	Coahuayana, near Colima, Michoacan, Mexico		Horse
	IV.1913		Coahuayana (18.44 N, 103.41 W), Mexico
	A. Laughton		IV.1913
			A. Laughton

ORIGINAL DETERMINATIONCURRENT STATUS

N 2729

Undetermined genus & species 1 ♂

Black panther (Felis pardus)

Kampong Batu, Negri Sembilan,
Federated Malay States

XI.1913

Rec'd from Dr. _____,
10.March 1914.

N 2729 MISSING but see N 2732.

N 2730

Haemaphysalis formosensis 4 ♂'s
[CO-TYPES!]

Dog (Canis familiaris)

Kosempo, Formosa, Japan

IV.1912

(Presented to G.H.F. Nuttall by
the Deutsches Entomologisches
Museum, Gosslerstrasse 20,
Berlin-Dahlem, Germany,
6 March, 1914).

N 2730

RML 111485

4 ♂ Haemaphysalis formosensis
Syntypes

Dog (Canis familiaris)

Kosempo, Taiwan (locality not
verified)

IV.1912

Neumann (1913: 135) original
description.
Cited & figured: Nuttall &
Warburton (1915: 400, 402).

ORIGINAL DETERMINATION

N 2731

Haemaphysalis aculeata
Lavarra, 1904. 1 ♂ [CO-TYPE!]

Tragulus meminna

Bodd, East Indies

1904

[Presented to G.H.F. Nuttall by
Professor Dr. Leonardo Lavarra,
R. Scuola Technica, Cola di Rienzo,
V. Governo Vecchio No. 34, Rome,
Italy, 10 March 1914.]

N 2732

Haemaphysalis leachi 1 ♂

Black panther (Felis pardus)

Kampong Batu, Negri Sembilan,
Federated Malay States

XI.1913

Rec'd from C. Strickland, Esq.,
M.A., 10 March 1914

CURRENT STATUS

N 2731

RML 111486

1 ♂ Haemaphysalis aculeata
Lectotype

Tragulus meminna

Bodd, Indonesia (locality not
verified)

1904

Lavarra (1904: 255), original
description. Cited: Nuttall &
Warburton (1915: 441). Trapido
(1965: 154) designated N2731
as the lectotype.

N 2732

RML 111487

1 ♂ Haemaphysalis koningsbergeri

Panthera pardus

Kampong Batu (02.35 N, 102.08 E),
Negri Sembilan, Malaysia

XI.1913

Rec'd from C. Strickland, Esq.,
M.A., 10 March 1914

Cited: Nuttall & Warburton
(1915: 476).

Ticks received from Professor C. S. Walton, Zoology Dep't., University College of Wales, Aberystwyth, Cardiganshire, Wales, 10 March, 1914:-

ORIGINAL DETERMINATION

CURRENT STATUS

N 2733

Ixodes hexagonus nymph

From beneath skin of fox

Llanrhystyd, S. of Aberystwyth

III.1914

Rec'd. from Prof. C. S. Walton

Sent back 3 unopened cysts & kept 1 (N 2735).

N 2733

RML 111488

1 N Ixodes hexagonus

From beneath skin of Vulpes vulpes

Llanrhystyd (52.18 N, 04.09 W), Wales

III.1914

Rec'd. from Prof. C. S. Walton

Cited: Nuttall (1914b: 258).

N 2734

Ixodes ricinus 1 ♀

Found under the skin (below the ear) of a fox

Llanrhystyd S. of Aberystwyth

III.1914

Rec'd. from Professor C. S. Walton

N 2734

RML 111489

1 ♀ Ixodes ricinus

Found under the skin (below the ear) of Vulpes vulpes

Llanrhystyd (52.18 N, 04.09 W), Wales

III.1914

Rec'd. from Professor C. S. Walton

Cited: Nuttall (1914b: 258).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2735

Ixodes hexagonus or ricinus
 N (probably) sack unopened

From beneath skin of fox

Llanrhystyd, S of Aberystwyth, Wales

III.1914

Rec'd. from Professor C. S. Walton

[See under "Deformities" at end
 of Cat.]

N 2736

Ixodes ricinus 3 ♂, 3 ♀ (in copula)

Sardinian cattle

Slaughterhouse at Rome

Rec'd. 13.III.1914

Rec'd. from Professor Dr. Leonardo
 Lavarra, Rome, Italy.

Ticks common on cattle at Sardinia
 and Campagna Romana.

N 2735 MISSING

N 2736

RML 111490

2 ♂, 2 ♀ Ixodes ricinus

Cattle, Sardinian

Slaughterhouse, Rome (41.54 N,
 12.29 E), Italy

Rec'd. 13.III.1914

Rec'd. from Professor Dr. Leonardo
 Lavarra, Rome, Italy.

Cited: Nuttall (1916: 333).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2737

Haemaphysalis chordeilis 1 ♀

Ruffed grouse

Catskill Mountain, New York,
U. S. America

VII.1909

(Presented by the Bureau of
Entomology, U. S. Dep't. of
Agriculture, - per Dr. L. O.
Howard, Washington, D. C.,
20 March, 1914).

N 2738

Amblyomma sp. 1 N

Porcupine

Ulu Gombak, Selangor, Federated
Malay States

II.1914

Rec'd from C. Strickland (Kuala
Lumpur), 19.III.1914

(T. 59).

N 2737

RML 111491

1 ♀ Haemaphysalis chordeilis

Bonansa umbellus

Catskill Mountains (42.10 N,
74.30 W), New York, U.S.A.

VII.1909

(Presented by the Bureau of
Entomology, U. S. Dep't. of
Agriculture, - per Dr. L. O.
Howard, Washington, D. C.,
20 March, 1914).

Cited: Nuttall & Warburton
(1915: 377).

N 2738

RML 111492

1 N Amblyomma sp.

Atherurus sp. or Hystrix sp.

Ulu Gombak Forest Reserve
(03.18 N, 101.47 E), Selangor,
Malaysia

II.1914

Rec'd from C. Strickland (Kuala
Lumpur), 19.III.1914

ORIGINAL DETERMINATIONCURRENT STATUS

N 2739

N 2739 MISSING

Ornithodoros coriaceus eggs,
Laid on 8-10.III.1914

Parents collected at San Antonio
Valley, Santa Clara County,
California II.1914

Rec'd. 29.III.1914

Rec'd. from Professor W. B. Herms,
Agricultural Experiment Station,
Univ. of California, Berkeley,
Cal., U.S.A.

Ticks received back from the Imperial Bureau of Entomology (ex. Report
No. 33), London, S. W. 1 April, 1914:-

N 2740

N 2740 MISSING

Rhipicephalus evertsi ♂'s, ♀'s

Off ?

Olorogoti, Masai Reserve,
B. E. Africa

XII.1913

Captain A. O. Luckman
I.B.E. No. 778.

N 2741

N 2741

RML 111493

Rhipicephalus evertsi ♂'s, ♀'s

5 ♂, 5 ♀ Rhipicephalus evertsi

Off ?

Off ?

Olorogoti, Masai Reserve,
B. E. Africa

Olorong'oti (00.29 S, 36.28 E),
Kenya

3.IX.1913

3.IX.1913

Captain A. O. Luckman

Captain A. O. Luckman

I.B.E. No. 786.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2742

Amblyomma splendidum ♂'s, ♀'s

Off ?

Portuguese Congo, Central Africa

? Date

Mr. Larsen

I.B.E. No. 791.

N 2742

RML 111494

13 ♂, 12 ♀ Amblyomma splendidum

Off ?

Angola

? Date

Mr. Larsen

Cited: Robinson (1926: 125).

N 2743

Rhipicephalus lunulatus ♂'s, ♀'s

Eland

Kola River, near Mt. Chiperrone,
Portuguese East Africa

XI.1913

S. A. Neave

I.B.E. No. 796.

N 2743

RML 111495

4 ♂, 4 ♀ Rhipicephalus lunulatus

Taurotragus oryx

Kola River, near Mt. Chiperrone,
Angola (locality not verified)

XI.1913

S. A. Neave

N 2744

Boophilus decoloratus 3 ♂, 2 ♀

Sable Antelope

Kola River, near Mt. Chiperrone,
Portuguese East Africa

XI.1913

S. A. Neave

I.B.E. No. 797.

N 2744 MISSING

Two tubes of ticks received from Captain W. S. Patton, I.M.S., The King Institute of Preventive Medicine, Guindy, Madras, India, 6 April, 1914:-

ORIGINAL DETERMINATIONCURRENT STATUS

N 2745

N 2745

RML 71475

Haemaphysalis bispinosa 2 ♀ & eggs2 ♀, + 60 L Haemaphysalis intermedia

Calves

Calves

Guindy, Madras

Guindy, Madras, India

III.1914

III.1914

Rec'd. from Captain W. S. Patton

Rec'd. from Captain W. S. Patton

Larvae raised in Cambridge

Cited: Nuttall & Warburton (1915; 432).-

ORIGINAL DETERMINATIONCURRENT STATUS

N 2746

N 2746

RML 111496

Argas vespertilionis 1 adult, N's
& larvae4 N, 17 L Argas vespertilionis
(in 3 vials)Bat (Scotophilus kuhli)Scotophilus sp.

Guindy, Madras, India

Guindy, Madras, India
(locality not verified)

XII.1912

XII.1912

Rec'd. from Captain W. S. Patton

Rec'd. from Captain W. S. Patton

[Nos. 2745 & 2746 used for raising
experiments.]

Note: Capt. Patton writes,
 19.III.1914, the N's fed on him
 26.X.1913, took 20-48 minutes to
 feed (shortest & longest time);
 the larvae were taken off a bat,
 12.XII.1912 so that the N's
 (1st stage) fasted until 26.X.1913,
 he finds they can fast nearly 1 year.
 Without again feeding the 1st stage
 N's moulted to 2nd stage N's on
 9.XI.1913 & these lived unfed for
 4 months. They do not feed well on
 pigeons, guinea pigs, etc. On
 dissection they show Leishmann's
 granules in the Malpighian tubes,
 but the bat (Scotophilus kuhli)
 has not been found to have
 spirochaetosis; he is sceptical
 regarding the granules. Letter
 destroyed, G.H.F.M.

Three tubes of ticks received from Captain W. S. Patton, I.M.S., Guindy, Madras, India, 14 April, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2746z, a	N	2746z, a
		RML	111497
	(2746z) <u>Aponomma gervaisi</u> 2 ♂		(2746z) 4 ♂ <u>Aponomma gervaisi</u>
	(a) <u>Aponomma laeve</u> var. <u>paradoxum</u> ♂'s, ♀'s, N's		(a) 16 ♂, 1 ♀ 16 N, 4 L <u>Aponomma pattoni</u>
	Off rat snake, <u>Zamenis mucosus</u>		<u>Ptyas mucosus</u>
	Guindy, Madras, India		Guindy, Madras, India (locality not verified)
	III.1914		III.1914
	Rec'd. from Captain W. S. Patton		Rec'd. from Captain W. S. Patton
N	2747	N	2747
		RML	111498
	<u>Aponomma gervaisi</u> ♂'s, ♀'s (TYPE variety)		21 ♂, 1 ♀, 2 N <u>Aponomma gervaisi</u>
	Rat snake (<u>Zamenis mucosus</u>)		<u>Ptyas mucosus</u>
	Guindy, Madras, India		Guindy, Madras, India (locality not verified)
	III.1914		III.1914
	Rec'd. from Captain W. S. Patton		Rec'd. from Captain W. S. Patton
N	2748	N	2748
		RML	111499
	<u>Aponomma laeve</u> var. <u>paradoxum</u> ♂'s, ♀'s, N's		29 ♂, 2 ♀, 16 N <u>Aponomma pattoni</u>
	<u>Zamenis mucosus</u>		<u>Ptyas mucosus</u>
	Guindy, Madras, India		Guindy, Madras, India (locality not verified)
	III.1914		III.1914
	Rec'd. from Captain W. S. Patton		Rec'd. from Captain W. S. Patton

Ticks received from Mr. Armbruster (per Dr. G. Wherry, Cambridge),
Abyssinia, E. Africa, 22 April, 1914:-

ORIGINAL DETERMINATION

CURRENT STATUS

N 2749

N 2749

RML 111500

Amblyomma sp. L

1 L Amblyomma sp.

Man

Man

Chercher Plateau, near Harar,
S. E. Abyssinia

Chercher Plateau (vicinity of
08.55 N, 40.35 E) near Harar
(09.19 N, 42.09 E), Ethiopia

I.1913

I.1913

Rec'd. from Mr. Armbruster

Rec'd. from Mr. Armbruster

N 2750

N 2750 MISSING

Amblyomma sp. L

Man

Gojjam, Abyssinia

7.III.1913

Rec'd. from Mr. Armbruster

ORIGINAL DETERMINATION

N 2751

Ixodes anatis Chilton, 1904, 2 ♀'sKiwi (Apteryx mantelli)

North Island, New Zealand

III.1914

W. W. Smith

[Rec'd. from Professor C. Chilton,
Biological Laboratory, Canterbury
College, Christchurch, New Zealand,
27 April 1914.] Compared with
type. G.H.F.N. det.

Note: Prof. Chas. Chilton, writes
20.III.1914 "Mr. Smith says he has
2 young kiwis, 2 months old, much
subject to the attacks of the
Ixodes, which generally attack them
about the ears & on the top of the
head, while in older birds they are
found about the base of the remnants
of the wings. He says that in life
the Ixodes are dark blue in colour
and shining with brilliant red legs."
Letter destroyed G.H.F.N.

CURRENT STATUS

N 2751

RML 111501

2 ♀ Ixodes anatisApteryx australis mantelli

North Island, New Zealand

III.1914

W. W. Smith

Cited: Nuttall (1916: 318).

Ticks retained from the collection sent for examination by M. le Dr. E. Brumpt, Laboratoire de Parasitologie, 15 Rue de l'École de Médecine, Paris (VIe), France, 16 March, 1914:-

ORIGINAL DETERMINATION

CURRENT STATUS

N 2752

N 2752

RML 111502

Haemaphysalis inermis 2 ♀

2 ♀ Haemaphysalis inermis

Deer

Cervus sp.

Fontainebleau, France

Fontainebleau (48.24 N, 02.42 E),
France

3.XI.1911

3.XI.1911

E. Brumpt

E. Brumpt

Brumpt's No. 2

Cited: Nuttall & Warburton
(1915: 367).

N 2753

N 2753

RML 111503

Haemaphysalis inermis 2 ♂

2 ♂ Haemaphysalis inermis

Deer

Cervus sp.

Fontainebleau, France

Fontainebleau (48.24 N, 02.42 E),
France

16.XII.1911

16.XII.1911

E. Brumpt

E. Brumpt

Brumpt's No. 4'

Cited: Nuttall & Warburton
(1915: 367).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2754	N	2754
		RML	111504
<u>Haemaphysalis concinna</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Haemaphysalis concinna</u>	
Deer		<u>Cervus</u> sp.	
R. Treville		Treville (43.23 N, 01.57 E), France	
27.II.1912		27.II.1912	
E. Brumpt		E. Brumpt	
Brumpt's No. 4		Cited: Nuttall & Warburton (1915: 457).	
N	2755	N	2755
		RML	111505
<u>Haemaphysalis concinna</u> 1 ♂, 1 N		1 ♂, 1 N <u>Haemaphysalis concinna</u>	
Deer		<u>Cervus</u> sp.	
Fontainebleau		Fontainebleau (48.24 N, 02.42 E), France	
20.II.1912		20.II.1912	
E. Brumpt		E. Brumpt	
Brumpt's No. 5		Cited: Nuttall & Warburton (1915: 457).	
N	2756	N	2756
		RML	111506
<u>Haemaphysalis inermis</u> 1 ♀		1 ♀ <u>Haemaphysalis inermis</u>	
Deer		<u>Cervus</u> sp.	
Fontainebleau		Fontainebleau (48.24 N, 02.42 E), France	
XI.1910		XI.1910	
E. Brumpt		E. Brumpt	
Brumpt's No. 7		Cited: Nuttall & Warburton (1915: 367).	

ORIGINAL DETERMINATIONCURRENT STATUS

N	2757, a	N	2757, a
		RML	111507
	(2757) <u>Haemaphysalis inermis</u> 1 ♀ with eggs & larvae		(2757) 1 ♀, 1 L <u>Haemaphysalis</u> <u>inermis</u>
	(a) <u>Haemaphysalis inermis</u> larvae (dry) raised in Paris by E. Brumpt		(a) 34 L <u>Haemaphysalis inermis</u>
	Deer and Hedgehog		<u>Cervus</u> sp. and <u>Erinaceus europaeus</u>
	Raised in Paris		Raised in Paris (48.52 N, 02.20 E), France
	10.XII.1911		10.XII.1911
	E. Brumpt		E. Brumpt
	Brumpt's No. 13 (2757)		Cited & figured: Nuttall &
	Brumpt's No. 30 (2757a)		Warburton (1915: 365, 366).
N	2758	N	2758
		RML	111508
	<u>Haemaphysalis inermis</u> N & 2 empty nymphal skins; 1 empty L skin		3 N <u>Haemaphysalis inermis</u>
	Raised in Paris		Raised in Paris (48.52 N, 02.20 E), France
	IX.1912		IX.1912
	E. Brumpt		E. Brumpt
	Brumpt's No. 17		Cited: Nuttall & Warburton (1915: 367).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2759

Haemaphysalis inermis 5 gorged L

Raised on hedgehog

Paris

1912

E. Brumpt

Brumpt's No. 25

N 2759

RML 111509

5 L Haemaphysalis inermisRaised on Erinaceus europaeus

Paris (48.52 N, 02.20 E), France

1912

E. Brumpt

Cited: Nuttall & Warburton
(1915: 367).

N 2760

Haemaphysalis concinna 1 N (gorged)

Hedgehog

Fontainebleau

7.II.1912

E. Brumpt

Brumpt's No. 26

N 2760

RML 111510

1 N Haemaphysalis concinnaErinaceus europaeusFontainebleau (48.24 N, 02.42 E),
France

7.II.1912

E. Brumpt

Cited: Nuttall & Warburton (1915:
457).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2761

Haemaphysalis concinna larvae
(unfed & replete)

Raised in Paris

1912

E. Brumpt

Brumpt's No. 27

[1 slide]

N 2761

RML 111511

18 L Haemaphysalis concinnaRaised in Paris (48.52 N, 02.20 E),
France

1912

E. Brumpt

Slide missing

Cited: Nuttall & Warburton (1915;
457).

N 2762

Haemaphysalis inermis N's
(fed & unfed)

No other data

1911

E. Brumpt

Brumpt's No. 34

[Hypostome of a N in balsam
on a slide]

N 2762

RML 111512

51 N Haemaphysalis inermis

No other data

1911

E. Brumpt

Slide missing

Cited: Nuttall & Warburton
(1915; 367).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2763	N	2763
		RML	111513
	<u>Haemaphysalis concinna</u> ♂'s, ♀'s & N's		4 ♂, 6 ♀, 7 N <u>Haemaphysalis concinna</u>
	No data		No data
	[N's raised in Paris, 1912]		N's raised in Paris (48.52 N, 02.20 E), France
	1912		1912
	E. Brumpt		E. Brumpt
	Brumpt's No. 35		Figured: Nuttall & Warburton (1915: 455, 456).
N	2764	N	2764
		RML	111514
	<u>Haemaphysalis inermis</u> ♂'s, ♀'s, N's		9 ♂, 8 ♀ <u>Haemaphysalis inermis</u>
	No data		No data
	E. Brumpt		E. Brumpt
	Brumpt's No. 35		Slides missing
	[N's = slides]		
N	2765	N	2765
		RML	111673
	<u>Haemaphysalis inermis</u> 3 ♂, 5 ♀		4 ♂, 6 ♀ <u>Haemaphysalis inermis</u>
	Raised in Paris		Raised in Paris (48.52 N, 02.20 E), France
	1911		1911
	E. Brumpt		E. Brumpt
	No other data No Brumpt number		
	[See also Nos. 2778, 2779]		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2766

N 2766

RML 22296

Haemaphysalis cuspidata 3 ♂, 1 ♀3 ♂ Haemaphysalis cuspidataHerpestes mungoHerpestes edwardsi

Peradeniya, Ceylon

Peradeniya (07.15 N, 80.36 E),
Sri Lanka

II.1912

II.1912

J. S. Fryer

J. S. Fryer

Gift of C. Warburton 8.V.1914

Three slides of dissections
made by R. A. Cooley
♂ hypostome
♂ legs I & IV
♂ spiracular plateNote in vial - 1 ♀ given to
Sharif, April, 1929.Cited: Nuttall & Warburton
(1915: 440).

N 2767

N 2767

RML 111674

Dermacentor nitens ♀, N, L1 ♀, 8 N, 6 L Anocentor nitens

Buck

Probably Odocoileus virginianus

Barbados, W. Indies

Barbados (13.10 N, 59.32 W),
West Indies

Shot VIII.1912

Shot VIII.1912

Dr. Lucius Nicholls who presented
the specimen of skin with innumerable
ticks on it.

Dr. Lucius Nicholls

(a) ♀, (b) 10 N's, (c) 8 larvae
placed in separate tubes. (d)
piece of skin preserved with ticks
in situ. G.H.F.N.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2768

Argas reflexus 1 specimen

Labelled from human habitations

Bombay

Found on C. W.'s bench

N 2768

RML 111675

1 ♀ Argas reflexus group

Labelled from human habitations

Bombay (18.58 N, 72.50 E), India

This specimen looks like good
A. reflexus but the collection data
 are poor and A. reflexus should
 not be found east of 75° longitude.

N 2769

Argas reflexus 1 ♀

Canterbury Cathedral

Rec'd. (dried & dead) 8.V.1914

Rec'd. from Mr. J. McClemens,
 Senior Vesturer at the suggestion
 of Dr. Mason, with a request for
 information about the tick "we
 only capture a specimen every
 10 or 12 years."

N 2769

RML 111676

1 ♀ Argas reflexus

Canterbury Cathedral, Canterbury
 (51.16 N, 01.05 E), Kent, England

Rec'd. (dried & dead) 8.V.1914

Rec'd. from Mr. J. McClemens

N 2770

Ixodes canisuga 1 ♀

Sandmartin

6.VIII.1909

Sent by Mr. R. F. L. Burton
 of Shrewsbury.

(a malformed specimen
 G.H.F.N. det. 4.X.1915).

N 2770 MISSING

Arthur (1963: 91), cited this
 collection as 1 ♀ Ixodes lividus.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2771

Haemaphysalis leachi 2 ♀

Dog

Kobondo (near Kapamba?)
Belgian Congo

1914

F. Harker (mission de Prospection)
says ticks scarce, has examined
many goats & sheep with negative
result.) See his letter.
G.H.F.N. det.

N 2772

Haemaphysalis leporis - palustris
(Packard, 1867) 10 ♂, 12 ♀

Lepus auduboni

San Francisco, California

30.IV.1909

Dr. M. B. Mitzmain

A ♂ was sent by C. Warburton to
L. O. Howard [Washington, D.C.]
who submitted it to N. Banks;
L.O.H. cites Banks' opinion
[30.IV.1913]: "We have no ♂ of
H. leporis - palustris which has
the angles as prominent as those
you send.... I think it is hardly
a good variety." The species
clearly varies. (letter destroyed).
G.H.F.N.

N 2771 MISSING

N 2772

RML 111677

7 ♂, 12 ♀, 3 N Haemaphysalis
leporispalustris

Sylvilagus audubonii

San Francisco (37.48 N, 122.24 W),
California, U.S.A.

30.IV.1909

Dr. M. B. Mitzmain

Cited: Nuttall & Warburton (1915:
394) who listed the collection
as containing only 12 ♀.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2773	N	2773 MISSING
	<u>Amblyomma variegatum</u> N's		
	Calf		
	Sicoma Isl., Lake Nyasa, Nyasaland		
	VII.1913		
	Wm. C. Wigan (Luddesdown, Gravesend)		
	(Nutt. det.).		
N	2774	N	2774
	<u>Amblyomma ovale</u> 7 ♂, 5 ♀	RML	111678
	Jaguar		6 ♂, 5 ♀ <u>Amblyomma ovale</u>
	Shot near Villa de San Pedro, Chaco, Paraguay		<u>Felis onca</u>
	12.XII.1913		Shot near Villa de San Pedro, Gran Chaco (23.00 S, 60.00 W), Paraguay
	Sent by Dr. L. E. Migone (Asunción, Paraguay 8.IV.1914)		12.XII.1913
	(L.E.R. det.)		Sent by Dr. L. E. Migone
			Cited and ♂ figured: Robinson (1926: 26).
N	2775	N	2775 MISSING
	<u>Amblyomma</u> sp. 1 ♀ (replete)		
	Hunting dog		
	Villa de San Pedro, Chaco, Paraguay		
	II.1914		
	Sent by Dr. L. E. Migone (Asunción, Paraguay, 8.IV.1914).		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2776

Ixodes hexagonus var. cookei
1 ♀ (replete)

Dog

Mt. Lehman, B. C., Canada

4.V.1914

Gift of S. Hadwen, Agasiz, B.C.

Nutt. & Warb. det. 26.V.14.

N 2777

Ixodes ricinus N and L

Dead grouse

Scotland

Rec'd. by Dr. A. E. Shipley
22.V.1914 who brought them in
to be det'd

(Nutt1. det.)

N 2776

RML 111679

1 ♀ Ixodes rugosus

Dog

Mt. Lehman (49.07 N, 122.23 W),
British Columbia, Canada

4.V.1914

Gift of S. Hadwen, Agasiz, B.C.

Cited: Nuttall (1916: 328).

N 2777

RML 111680

1 N, 21 L Ixodes ricinus

Grouse, dead

Scotland

Rec'd. by Dr. A. E. Shipley
22.V.1914 who brought them in
to be det'd

Cited: Nuttall (1916: 331).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2778

Haemaphysalis concinna larvae, unfed

No data

Raised in Paris

Dr. E. Brumpt

Brumpt's No. 28

[See entry before N. 2752]

Figured for book on ticks.

N 2778

RML 111681

1 N, 38 L Haemaphysalis concinna

No data

Raised in Paris (48.52 N, 02.20 E),
France

Dr. E. Brumpt

Cited: Nuttall & Warburton
(1915: 457).

N 2779

Haemaphysalis inermis nymphal skinsFrom specimens raised by
Dr. E. Brumpt

Paris

No data

Brumpt's No. 33

[See foregoing].

N 2779

RML 111682

4 N skins Haemaphysalis inermisFrom specimens raised by
Dr. E. Brumpt

Paris (48.52 N, 02.20 E), France

No data

ORIGINAL DETERMINATIONCURRENT STATUS

N 2780

N 2780

RML 111683

Haemaphysalis cinnabarina
♀'s (replete)6 vials of Haemaphysalis punctata
as follows: 10 ♀; 13 ♀; 7 N;
170 N; 7 L; ± 250 L.

Sheep

Sheep

Lydd, Kent

Parent ♀'s from Lydd (50.57 N,
00.55 E), subsequent generations
reared in Cambridge (52.13 N,
00.08 E), England

Rec'd. alive 25.V.1914

Rec'd. alive 25.V.1914

W. F. Cooper

W. F. Cooper

Some preserved, others to use for
raising (Nutt. det.)Cited: Nuttall & Warburton
(1915: 384).Raised in Cambridge, placed in
4 tubes containing: (a) larvæ,
unfed, (b) larvae, gorged on ram
1914, (c) nymphs, unfed, (d) ♀'s
after ovipositing. All put with
immature stages in cabinet.

N 2781

N 2781

RML 111684

Boophilus australis ca 20 ♀, 2 N21 ♀, 2 N Boophilus microplus

Cattle

Cattle

Samarai, Papua

Samarai (10.37 S, 150.40 E),
Papua, New Guinea

30.VIII.1913

30.VIII.1914

G. C. Eichhorn

G. C. Eichhorn

(Rec'd. 1.VI.1914 his address—
Sariba, Samarai, Papua).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2782

N 2782

RML 111685

Boophilus australis ♀'s34 ♀ Boophilus microplus

Cattle

Cattle

Sariba Island, 3 miles from
Samarai, PapuaSariba Island, 3 miles from
Samarai (10.37 S, 150.40 E),
Papua, New Guinea

11-14.XII.1913

11-14.XII.1913

G. C. Eichhorn

G. C. Eichhorn

(Rec'd. 1.VI.1914).

Ticks retained for our collection from the consignment sent for determination
by the Königl. Zoologische Museum (per Prof. Dr Dahl), Berlin N4, Germany.

N 2783

N 2783 MISSING

Ornithodoros moubata

From Askari (native) huts

Ussuwi, German East Africa

Dr Neubert

Berlin Mus. No. 1279/1913.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2784

Dermacentor rhinocerotis 2 ♂

Rhinoceros

Karagwe, Njkwenda, German East
Africa

3.I.1912

Dr Neubert

Berlin Mus. No. 1159/1913.

N 2784

RML 111686

2 ♂ Dermacentor rhinocerinusDiceros bicornisKaragwe District (01.30 S, 31.00 E),
Tanzania

3.I.1912

Dr Neubert

N 2785

Amblyomma petersi 3 ♂

Rhinoceros

Karagwe, Njkwenda, German East
Africa

3.I.1912

Dr Neubert

Berlin Mus. No. 1159/1912.

N 2785

RML 111687

2 ♂ Amblyomma rhinocerotisDiceros bicornisKaragwe District (01.30 S, 31.00 E),
Tanzania

3.I.1912

Dr Neubert

ORIGINAL DETERMINATIONCURRENT STATUS

N	2786	N	2786
		RML	105562
	<u>Rhipicephalus capensis</u> ♂, ♀		2 ♂, 2 ♀ <u>Rhipicephalus compositus</u>
	Sumpfböck		<u>Tragelaphus spekei</u>
	Kigarama, German East Africa		Either Kigarama (01.04 S, 31.45 E), or (01.23 S, 30.48 E), Tanzania
	19.II.1912		19.II.1912
	Dr Neubert		Dr Neubert
	Berlin Mus. No. 1159/1913.		
N	2787	N	2787
		RML	111688
	<u>Aponomma exornatum</u> 6 ♂, 2 ♀, 1 N		6 ♂, 1 ♀ <u>Aponomma exornatum</u>
	Off ?		Off ?
	Daressalam, Tangani & Hinterland, German East Africa		Dar es Salaam (06.48 S, 39. 17 E), Tanzania
	? date		? date
	R. Regner		R. Regner
	Berlin Mus. No. 1030/09.		
N	2788	N	2788
		RML	111689
	<u>Rhipicephalus simus</u> 4 ♂, 4 ♀		4 ♂, 4 ♀ <u>Rhipicephalus jeanneli</u>
	Buffalo		<u>Syncerus caffer</u>
	Kissenji, German East Africa		Kissenji, Tanzania (locality not verified)
	II-XI.1908		II-XI.1908
	v. Stegmann & Stein		v. Stegmann & Stein
	Berlin Mus. No. 1496/09.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2789	N	2789
		RML	105783
	<u>Rhipicephalus simus</u> 8 ♂, 6 ♀		6 ♂, 5 ♀ <u>Rhipicephalus simus</u> 3 ♂, 2 ♀ <u>Rhipicephalus reichenowi</u> 1 ♀ <u>Rhipicephalus punctatus</u>
	Porcupine		<u>Hystrix</u> sp. or <u>Atherurus</u> sp.
	Mikesse, Bezirk Morogoro, German East Africa		Mikese (06.46 S, 37.54 E), Morogoro Region, Tanzania
	? date		? date
	Dr W. Fanensch		Dr W. Fanensch
N	2790	N	2790 MISSING
	<u>Haemaphysalis leachi</u> 6 ♂, 2 ♀		
	Civet-cat		
	Usumbura, Central Africa		
	15.XI.1907		
	v. Stegmann & Stein		
	Berlin Mus. No. 1496/09.		
N	2791	N	2791
		RML	111690
	<u>Rhipicephalus complanatus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Rhipicephalus complanatus</u>
	<u>Potamochoerus</u> sp.		<u>Potamochoerus porcus</u>
	Amani, German East Africa		Amani (05.06 S, 38.38 E), Tanzania
	8.VI.1904		8.VI.1904
	Prof. Vosseler		Prof. Vosseler
	Berlin Mus. No. 1417/08.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2792

N 2792

RML 111691

Rhipicephalus neavei 4 ♂, 4 ♀1 ♂, 1 ♀ Rhipicephalus kochi
3 ♂, 3 ♀ Rhipicephalus pravus

Kudu

Tragelaphus strepsiceros or
Tragelaphus imberbis

Kilimatinde, German East Africa

Kilimatinde (05.51 S, 34.57 E),
Tanzania

VII.1908

VII.1908

Dr Claus

Dr Claus

Berlin Mus. No. 1417/08
(Turu Expedition).

N 2793

N 2793

RML 105657

Rhipicephalus kochi ♂ & ♀1 ♂, 1 ♀ Rhipicephalus jeanneli

Off ?

Off ?

Found at the "Fuss der Hochweiden"
am Bismarkhügel oberhalb Maranga,
südlich von Mawensi (3000-2500
meters) Kilimandscharo, German
East AfricaMawensi cone (03.06 S, 37.27 E),
(3000-2500 m) Mt. Kilimanjaro
(03.04 S, 37.22 E), Tanzania

II.1912

II.1912

Dr Chr. Schröder

Dr Chr. Schröder

Berlin Mus. No. 1204/1912.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2794	N	2794
		RML	111692
	<u>Ixodes ugandanus djaronensis</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Ixodes lewisi</u>
	Schira		Schira (name not verified)
	Kilimandscharo, German East Africa		Mt. Kilimanjaro (03.04 S, 37.22 E), Tanzania
	3.V.1907		3.V.1907
	Dr E. H. Förster		Dr E. H. Förster
	Berlin Mus. No. 1325/04.		Cited: Nuttall (1916: 334).
N	2795	N	2795 MISSING
	<u>Haemaphysalis leachi</u> 2 ♂, 1 ♀ (small!)		
	Squirrel (<u>Anomalurus orientalis</u>)		
	Amani, German East Africa		
	X.1907		
	Prof. Vosseler		
	Berlin Mus. No. 1417/08.		
N	2796	N	2796
		RML	111693
	<u>Rhipicephalus falcatus</u> 2 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus pravus</u> 1 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Off ?		Off ?
	Usuisa, German East Africa		Usuisa, Tanzania (locality not verified)
	IV.1912		IV.1912
	Lieut Diesener		Lieut Diesener
	Berlin Mus. No. 1237/1912.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2797

Amblyomma marmoreum 4 ♂'s

Yellow land tortoise

Bagamoyo, German East Africa

6.VI.1908

Prof. Vosseler

Berlin Mus. No. 1417/08.

N 2797

RML 111694

4 ♂ Amblyomma nuttalli

Tortoise, yellow land

Bagamoyo, Tanzania (locality not verified; 11 possible localities)

6.VI.1908

Prof. Vosseler

Santos Dias (1958: 513)
incorrectly gave this collection
Nuttall number 2497.

N 2798

Rhipicephalus lunulatus 2 ♂, 1 ♀

"Flusschwein"

Alsamwialager

? date

Capt. Fromm

No Berlin Mus. No.

N 2798

RML 111695

2 ♂, 1 ♀ Rhipicephalus lunulatusPotamochoerus porcusAlsamwialager, Africa
(locality not verified)

? date

Capt. Fromm

ORIGINAL DETERMINATIONCURRENT STATUS

N 2799

N 2799

RML 111696

Ixodes putus 1 N1 N Ixodes uriaeFrom ground, off Eudytes (?)From ground, off Eudytes sp. (?)

Kerguelen

Kerguelen Island (49.30 S, 69.30 E)

Deutsches Tiefsee Expedition,
1898-1899Deutsches Tiefsee Expedition,
1898-1899

No Berlin Mus. No.

Cited: Nuttall (1916: 330).

N 2800

N 2800

RML 111697

Rhipicephalus complanatus 6 ♂'s6 ♂ Rhipicephalus complanatus

"Flusschwein"

Potamochoerus porcus

Msamwia-Lager

Msamwia-Lager, Africa
(locality not verified)

? date

? date

Capt. Fromm

Capt. Fromm

No Berlin Mus. No.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2801

Rhipicephalus neavei 1 ♂, 1 ♀

Off ?

Kisenje Niundo, Ruanda

1906

No Berlin Mus. No.

N 2802

Amblyomma splendidum 2 ♂, 2 ♀

Buffalo

Mougang

25.III.1912

Dr. L. Waibel

Berlin Mus. No. 894/1912

N 2801

RML 111698

1 ♂ Rhipicephalus kochi

Off ?

Possibly Nindo (01.23 S, 29.43 E),
Rwanda

1906

N 2802

RML 111699

2 ♂, 2 ♀ Amblyomma splendidum

Syncerus caffer

Mougang, Africa

25.III.1912

Dr. L. Waibel

Note in vial - "Probably Kamorun not
G.E. Africa" - L.E.R.

Vial label reads G.E. Africa but
A. splendidum is not found in Tanzania.
I have been unable to find the locality
Mougang in Cameroon. - J.E.K.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2803	N	2803
		RML	111700
	<u>Ixodes rarus</u> 2 ♀		1 ♀ <u>Ixodes rarus</u>
	"Schuppentier" (?)		<u>Manis</u> sp. (?)
	Lolodorf		Lolodorf (03.14 N, 10.44 E), Cameroon
	29.III.1907		29.III.1907
	Berlin Mus. No. 1600/07		Cited: Nuttall (1916: 331).
N	2804	N	2804
		RML	111701
	<u>Rhipicephalus complanatus</u> 2 ♂, 3 ♀		2 ♂, 3 ♀ <u>Rhipicephalus complanatus</u>
	Wild pigs		<u>Sus scrofa</u>
	Kamerun, German S. W. Africa		Cameroon
	? date		? date
	Dr. Schäfer		Dr. Schäfer
	Berlin Mus. No. 604/1910		
N	2805	N	2805
		RML	111702
	<u>Rhipicephalus sanguineus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Leopard		<u>Panthera pardus</u>
	Lagdo Berge, Lake Chad		Lagdo Berge, Lake Chad (13.20 N, 14.00 E), Chad
	25.VI.1909		25.VI.1909
	Riggenbash		Riggenbash
	Berlin Mus. No. 1040/09		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2806

Rhipicephalus simus 1 ♂

Leopard

Lagdo Berge, Lake Chad

25.VI.1909

Riggenbash

Berlin Mus. No. 1040/09

N 2806

RML 111703

1 ♂ Rhipicephalus simusPanthera pardusLagdo Berge, Lake Chad (13.20 N,
14.00 E), Chad

25.VI.1909

Riggenbash

N 2807

Rhipicephalus lunulatus 2 ♂, 2 ♀

Off ?

Yako

10.V.1912

Dr. L. Waibel & Prof. Thorbecke

Berlin Mus. No. 204/1913

N 2807

RML 111704

2 ♂, 2 ♀ Rhipicephalus lunulatus

Off ?

Possibly Yako (12.58 N, 02.15 W),
Upper Volta

10.V.1912

Dr. L. Waibel & Prof. Thorbecke

N 2808

Amblyomma varium 2 ♂, 1 ♀

Sloth

David, Panama, Central America

11.XI.1911

O. Garlepp

Berlin Mus. No. 1327/

N 2808 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 2809

Rhipicephalus sanguineus 3 ♂, 3 ♀

Dog

Paramaribo, Surinam, Dutch
Guiana, S. America

1.VI.1908

Heller

Berlin Mus. No. 784/08

N 2809 MISSING

N 2810

Ixodes boliviensis 1 ♀

"Pisote"

Foot of Turrialba (1,600 metres)
E. of Cartago, Costa Rica
la Trinidad, S. America

Garlepp

Berlin Mus. No. 592/1913

N 2810

RML 111705

1 ♀ Ixodes boliviensis

Nasua narica

Foot of Volcan Turrialba (10.02 N,
83.46 W), Costa Rica (1,600 m).

O. Garlepp

Cited: Nuttall (1916: 325).

N 2811

Ixodes bicornis 1 ♀

Nasua narica

Foot of Turrialba (1,600 m.),
E. of Cartago, Costa Rica
la Trinidad, S. America

Garlepp

Berlin Mus. No. 619/13

N 2811

RML 111706

1 ♀ Ixodes boliviensis

Nasua narica

Foot of Volcan Turrialba (10.02 N,
83.46 W), Costa Rica (1,600 m.)

O. Garlepp

Cited: Nuttall (1916: 325) with
Berlin Mus. No. 619/1913.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2812

N 2812

RML 111707

Ixodes bicornis 9 ♀9 ♀ Ixodes boliviensis

Stag

Odocoileus virginianus or Mazama sp.Foot of Turrialba (1,600 m.), E.
of Cartago, Costa Rica la
Trinidad, S. AmericaFoot of Volcan Turrialba (10.02 N,
83.46 W), Costa Rica

Garlepp

O. Garlepp

Berlin Mus. No. 592/1913.

Cited: Nuttall (1916: 325).

N 2813

N 2813

RML 111708

Ixodes boliviensis 1 ♀1 ♀ Ixodes boliviensis

Mapatsching

Mapatsching [Procyon lotor]Foot of Turrialba (1,600 m.), E.
of Cartago, Costa Rica la
Trinidad, S. AmericaFoot of Volcan Turrialba (10.02 N,
83.46 W), Costa Rica (1,600 m.)

Garlepp

O. Garlepp

Berlin Mus. No. 592/1913.

Cited: Nuttall (1916: 325).

N 2814

N 2814 MISSING

Rhipicephalus sanguineus 5 ♂, 5 ♀

Dog

Amping, Formosa

VII.1910

H. Sauter

Berlin Mus. No. 672/1911.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2815

N 2815

RML 111709

Ixodes canisuga 6 ♀'s6 ♀ Ixodes canisuga

Young foxes

Vulpes vulpes

Näüen, Germany

Näüen (51.59 N, 10.14 E), Federal
Republic of Germany

? date

? date

Geh-Rat Cohn

Geh-Rat Cohn

No. Berlin Mus. No.

Cited: Nuttall (1916: 326).

N 2816

N 2816

RML 111710

Haemaphysalis obtusa 1 ♂
(TYPE!)1 ♂ Haemaphysalis obtusa
SYNTYPE

Off

Off

Island of Réunion, Indian Ocean

Réunion Island (48.27 S, 68.48 E)

No other data

No Berlin Mus. No.

Dönitz (1910a: 492) original description.
Cited: Nuttall & Warburton (1915: 477);
Hoogstraal (1953: 42).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2817
Rhipicephalus sanguineus 3 ♂, 3 ♀
 Gazelle
 Sendschirli am Amanus (Jiaur Dagli),
 Zwischen Aleppo and Marasch (500 m.
 elev.), Asiatic Turkey
 ? Date
 Frau v. Luschan
 Berlin Mus. No. 152/1912

N 2818
Hyalomma syriacum 2 ♂, 2 ♀
Testudo graeca
 Olympia, Greece
 ? Date
 Dr. E. Moll
 Berlin Mus. No. 1198/10.

N 2819
Haemaphysalis leachi 2 ♂, 1 ♀
Herpestes sp.
 Eritrea, Abyssinia
 5.III.1913
 Dr. Klatt
 Berlin Mus. No. 676/1913.

N 2817 MISSING

N 2818
 RML 111711
 2 ♂, 2 ♀ Hyalomma aegyptium
Testudo graeca
 Olympus (38.55 N, 24.31 E), Greece
 ? Date
 Dr. E. Moll

N 2819 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 2820

N 2820

RML 111712

Rhipicephalus complanatus 3 ♂, 1 ♀
[O-TYPE!]3 ♂, 1 ♀ Rhipicephalus complanatus

"Pinseloherschwein"

Potamochoerus porcus

Molundu, Africa

Probably Molundu, now Moloundou
(02.02 N, 15.13 E), Cameroon

I.1910

I.1910

No. Berlin Mus. No.

Compared 18.VI.1914 with type ♂
No. 1722 in Neumann collection
with which it fully agrees.Nuttall's O-type was a specimen which
had been compared to a type of a
species. The ♂ is in a separate
small vial.

N 2821

N 2821

RML 111713

Amblyomma ovale Koch, 1844 1 ♂, 1 ♀1 ♂, 1 ♀ Amblyomma ovale"Ixod 6328""Ixod 6328"

S. America

S. America

No other data

No other data

No Berlin Mus. No.

L.E.R. det. 1926.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2822

N 2822

RML 76103

Haemaphysalis parva 3 ♂, 1 ♀3 ♂, 1 ♀ Haemaphysalis intermedia

"Ähnlich der H. neumanni aber ♂ viel kleiner, nur 4 Reihen Zähne bei ♂ & ♀. Coll. Scholde. Fundort unbekannt. (Dönitz label)"

"Similar to H. neumanni but ♂ much smaller, only 4 rows of teeth in ♂ & ♀. Coll. Scholde. Locality unknown (Dönitz label)"

No Berlin Mus. No.

A cotype label for H. parva is in the vial but these do not appear to be syntypes - see N2889.

Cited: Hoogstraal & Trapido (1963b: 838).

N 2823

N 2823

RML 111714

Aponomma exornatum 1 ♂1 ♂ Aponomma trimaculatumVaranus sp.Varanus sp.

Manila, Philippine Islands

Manila (14.35 N, 121.00 E), Philippines

4.IV.1906

4.IV.1906

No Berlin Mus. No.

N 2824

N 2824

RML 111715

Rhipicephalus longicoxatus
1 ♂, 1 ♀1 ♂, 1 ♀ Rhipicephalus muehlensi

Giraffe

Giraffa camelopardalis

Negero, Africa

Probably Negero (05.46 S, 37.48 E), Tanzania

15/6 No other data

15/6 No other data

Dönitz

Corrected 11.XI.35 G.H.F.N.
(C.W. re-det.)

ORIGINAL DETERMINATIONCURRENT STATUS

N 2825, a

(2825) Rhipicephalus ziemanni
4 ♂, 4 ♀
(a) Rhipicephalus longicoxatus

Strepsiceros kudu

Irangi, Africa

"Rhip. ohne Randfurche nicht
excinctus und nicht kochi"
(Donitz's label) "261".

N 2826

Rhipicephalus complanatus 4 ♂, 4 ♀

"Pinseloherschwein"

Molundu, Haberer

No other data.

No Berlin Mus. No.

N 2827

Dermacentor auratus 1 ♀

Dog

Deli, Sumatra, Dutch East Indies

IIIe. No other data

No Berlin Mus. No.

N 2825, a

RML 111716

(2825) 2 ♂, 4 ♀ Rhipicephalus
jeanneli
(a) 2 ♂ Rhipicephalus muehlensi

Tragelaphus strepsiceros

Kondoa Irangi, now Kondoa (04.54 S,
35.47 E), Tanzania

Locality on vial label -
Kondoa Irangi

N 2826

RML 111717

4 ♂, 4 ♀ Rhipicephalus complanatus

Potamochoerus porcus

Probably Molundu, now Moloundou
(02.02 N, 15.13 E), Cameroon

No other data.

N 2827

RML 111718

1 ♀ Dermacentor auratus

Dog

Labuhandeli (03.45 N, 98.41 E),
Indonesia

IIIe. No other data

ORIGINAL DETERMINATIONCURRENT STATUS

N 2828

Hyalomma aegyptium 4 ♂, 1 ♀

Buffalo

Gore, Neu-Kamerun, German
S.W. Africa

XII.1912

Dr. Houy

Berlin Mus. No. 823/1913.

N 2828 MISSING

N 2829

Amblyomma variegatum 2 ♂

Buffalo

Gore, Neu-Kamerun, German
S.W. Africa

XII.1912

Dr. Houy

Berlin Mus. No. 823/1913.

N 2829 MISSING

N 2830

Rhipicephalus simus 1 ♂

Buffalo

Gore, Neu-Kamerun, German
S. W. Africa

XII.1912

Dr. Houy

Berlin Mus. No. 823/1913.

N 2830

RML 111719

1 ♂ Rhipicephalus muhsamae

Syncerus caffer

Perhaps Gore, Hosere (09.11 N,
13.52 E), Cameroon

XII.1912

Dr. Houy

ORIGINAL DETERMINATIONCURRENT STATUS

N 2831

N 2831 MISSING

Ornithodoros moubataAus Gros-Namaland, Deutsch
S. W. Africa

1912

Dr. Trommsdorff

No. Berlin Mus. No.

N 2832

N 2832

RML 111720

Haemaphysalis spinigera var.
novae-guineae 5 ♂, 5 ♀
(S. Hirst, VI.1915), N & W. 19145 ♂, 5 ♀ Haemaphysalis novaeguineae

Kangaroo

Kangaroo

Northern Territory, Queensland
AustraliaNorthern Territory, Queensland,
Australia

No date

No date

Dr. Georgina Sweet

Dr. Georgina Sweet

ex. tube 463.

Georgina Sweet died 1.I.1946, former
Associate Professor of Zoology,
University of Melbourne and first
woman in Australia to take the degree
of Doctor of Science.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2833

Haemaphysalis chordeilis 2 ♂, 1 ♀

Meadow lark (Sturnella magna)

Victoria, Texas, U.S.A.

1909

(Bishopp (Acc. 888))

N 2834

Haemaphysalis chordeilis 1 ♀

Meadow lark (Sturnella magna)

Victoria, Texas, U.S.A.

12.XI.1909

(Bishopp acc. 886)
[Lots 2833 & 2834 rec'd. from
Mr. F. C. Bishopp, Dallas,
Texas, U.S.A., 2.VI.1914]

N 2833

RML 111721

2 ♂, 1 ♀ Haemaphysalis chordeilis

Sturnella magna

Eastern Victoria County (28.48 N,
97.00 W), Texas, U.S.A.

15.XI.1909

J. D. Mitchell

Cited: Nuttall & Warburton
(1915: 377).
Collection data from Bishopp
accession card 888.

N 2834

RML 111722

1 ♀ Haemaphysalis chordeilis

Sturnella magna

Victoria County (28.48 N, 97.00 W),
Texas, U.S.A.

12.XI.1909

J. D. Mitchell

Cited: Nuttall & Warburton (1915: 377)

Collection data from Bishopp
Accession card 886.

Ticks received back from the Imperial Bureau of Entomology (ex. Report No. 34), London, S.W., 5 June, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2835	N	2835
		RML	111723
	<u>Rhipicephalus kochi</u> 2 ♂, 2 ♀		3 ♂, 1 ♀ <u>Rhipicephalus jeanneli</u>
	Cattle		Cattle
	Mau, Narok, Masai Reserve, B. E. Africa		Mau (00.10 S, 35.41 E), Kenya
	20.I.1914		20.I.1914
	Captain A. O. Luckman		Captain A. O. Luckman
	I.B.E. No. 842.		
N	2836	N	2836 MISSING
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s		
	Dogs		
	Mau, Narok, Masai Reserve, B. E. Africa		
	15.I.1914		
	Captain A. O. Luckman		
	I.B.E. No. 844.		
N	2837	N	2837
		RML	111724
	<u>Rhipicephalus capensis</u> ♂'s, ♀'s		4 ♂, 4 ♀ <u>Rhipicephalus jeanneli</u>
	Cattle		Cattle
	Mau, Narok, Masai Reserve,		Mau (00.10 S, 35.41 E), Kenya
	20.I.1914		20.I.1914
	Capt. A. O. Luckman		Capt. A. O. Luckman
	I.B.E. No. 848.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2838

N 2838

RML 111725

Rhipicephalus capensis ♂'s, ♀'s2 ♂, 2 ♀ Rhipicephalus jeanneli

Cattle

Cattle

Mau, Narok, Masai Reserve,
B. E. Africa

Mau (00.10 S, 35.41 E), Kenya

20.I.1914

20.I.1914

Capt. A. O. Luckman

Capt. A. O. Luckman

I.B.E. No. 849.

N 2839

N 2839 MISSING

Rhipicephalus simus ♂'s, ♀'s

Dogs

S.W. of Lake Chilwa, Nyasaland,
B.C. Africa

I.1914

S. A. Neave

I.B.E. No. 852.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2840

N 2840

RML 111726

Rhipicephalus simus ♂'s, ♀'s2 ♂, 2 ♀ Rhipicephalus simus

Dogs

Dogs

S. W. Of Lake Chilwa, Nyasaland,
B. C. AfricaS. W. of Lake Chilwa (15.12 S,
35.50 E), Malawi

I.1914

I.1914

S. A. Neave

S. A. Neave

I.B.E. No. 853.

Note in vial "1 ♂, 1 ♀ removed
Cooley"1 ♂, 1 ♀ to Prof. R. A. Cooley,
Montana V.1928.1 ♂, 1 ♀ to Prof. R. Matheson
Cornell, 27.V.1929.1 ♂, 1 ♀ to Dr. A. C. Reed,
San Francisco 30.V.1929.1 ♂, 1 ♀ to Prof. J. Drbohlav,
Prague 30.V.1929.

N 2841

N 2841

RML 111727

Haemaphysalis leachi ♂'s, ♀'s7 ♂, 3 ♀ Haemaphysalis leachi

Dogs

Dogs

S. W. of Lake Chilwa, Nyasaland,
B. C. AfricaS. W. of Lake Chilwa (15.12 S,
35.50 E), Malawi

I.1914

I.1914

S. A. Neave

S. A. Neave

I.B.E. No. 854.

Cited: Nuttall & Warburton (1915: 472).

1 ♂, 1 ♀ to J. de Meza, Zomba,
Nyasaland 19.II.1916.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2842

N 2842

RML 111728

Rhipicephalus lunulatus ♂'s6 ♂, 2 ♀ Rhipicephalus lunulatus

Dogs

Dogs

S. W. of Lake Chilwa, Nyasaland,
B. C. AfricaS. W. of Lake Chilwa (15.12 S,
35.50 E), Malawi

I.1914

I.1914

S. A. Neave

S. A. Neave

I.B.E. No. 854b.

N 2843

N 2843

RML 111729

Rhipicephalus sanguineus var.
sulcatus 2 ♂, 1 ♀2 ♂, 1 ♀ Rhipicephalus sanguineus

"Oribi"

Ouribia ourebi

Plains S.W. of Lake Chilwa

Plains S.W. of Lake Chilwa (15.12 S,
35.50 E), Malawi

I.1914

S. A. Neave

I.B.E. No. 855.

Date and collector on vial label.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2844	N	2844
		RML	111730
	<u>Ixodes pilosus</u> 1 ♀		1 ♀ <u>Ixodes lewisi</u>
	Reedbuck		<u>Redunca arundinum</u> or <u>R. fulvorufula</u>
	Plains S.W. of Lake Chilwa		Plains S.W. of Lake Chilwa (15.12 S, 35.50 E), Malawi
			I. 1914
			S. A. Neave
	I.B.E. No. 856		Date and collector on vial label and given by Nuttall (1916: 330).
N	2845	N	2845 MISSING
	<u>Boophilus australis</u> 2 ♂, 3 ♀, N's		
	Indian calf		
	Pusin Island, Zanzibar		
	IX.1913		
	Dr. W. M. Aders		
	I.B.E. No. 869.		
N	2846	N	2846
		RML	111731
	<u>Haemaphysalis bispinosa</u> ♂'s		6 ♂ <u>Haemaphysalis bispinosa</u>
	Imported Indian (Bombay) cows		Cows, imported from Bombay, India
	Zanzibar		Zanzibar Island (06.10 S, 39.20 E), Tanzania
	2.IX.1913		2.IX.1913
	Dr. W. M. Aders		Dr. W. M. Aders
	I.B.E. No. 870.		Cited: Nuttall & Warburton (1915: 433).

Ticks received back from the Imperial Bureau of Entomology (per Guy A. K. Marshall, Esq.), London S.W., 11 June, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2847	N	2847
		RML	95816
<u>Haemaphysalis hoodi</u> var. <u>orientalis</u> Nutt. & Warb., 1914 1 ♀		2 ♂, 1 ♀ <u>Haemaphysalis orientalis</u> Lectotype and paralectotypes	
<u>Procavia manningi</u> Wroughton		<u>Heterohyrax brucei manningi</u>	
S.W. Shore of Lake Nyasa, B.C. Africa		S.W. Shore of Lake Malawi (12.00 S, 34.30 E), Malawi	
III.1910		III.1910	
S. A. Neave		S. A. Neave	
I.B.E. No. 66a.		Nuttall & Warburton (1915: 485), original description. Hoogstraal (1956b: 161) raised <u>H. orientalis</u> to specific rank. Lectotype design- ated: Keirans & Brewster (1981: 161).	
N	2848	N	2848
		RML	95816
<u>Haemaphysalis hoodi</u> var. <u>orientalis</u> N. & W., 1914 2 ♂, 1 ♀ TYPES		3 ♂, 2 ♀ <u>Haemaphysalis orientalis</u> Paralectotypes	
<u>Procavia manningi</u> Wroughton		<u>Heterohyrax brucei manningi</u>	
S.W. Shore of Lake Nyasa, B.C. Africa		S.W. Shore of Lake Malawi (12.00 S, 34.30 E), Malawi	
III.1910		III.1910	
S. A. Neave		S. A. Neave	
I.B.E. No.69.		Nuttall & Warburton (1915: 486), original description. Hoogstraal (1956b: 161) raised <u>H. orientalis</u> to specific rank. Paralectotypes designated: Keirans & Brewster (1981: 161).	
		1 ♂ and 1 ♀ hypostome are mounted on slides.	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2849	N	2849
		RML	111732
	<u>Argas persicus</u> 2 specimens		1 ♂, 1 N <u>Argas persicus</u>
	Elizabethville, Belgian Congo, Central Africa		Elisabethville (11.40 S, 27.28 E), Zaire
	1914		1914
	Dr. Pulieri		Dr. Pulieri
	[Rec'd. from Professor G. Severin, Musee Royal d'Histoire Naturelle de Belgique, Bruxelles, 12 June 1914.]		Guillaume Severin (1862-1938) Honorary conservator of the Entomological Section, Royal Museum of Natural History of Belgium. He died suddenly of an embolism while he was determining some insects captured by him the day before.
N	2850	N	2850 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dog (Fox-terrier)		
	Mhow, Central India		
	5.VI.1914		
	Rec'd. from Major T. W. Rudd, A.V.C., Station Veterinary Hospital, Mhow, 22 June 1914.		

Thirteen tubes of ticks received from Dr. Jijournaut, Institut Pasteur
Morocain, Tangier, Morocco, North Africa, 22 June, 1914:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	2851, a	N	2851, a
		RML	111733
	(2851) <u>Rhipicephalus bursa</u> ♂'s, ♀'s		(2851) 7 ♂, 15 ♀ <u>Rhipicephalus bursa</u>
	(a) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(a) 9 ♂, 4 ♀ <u>Hyalomma marginatum</u>
	Horses		Horses
	Tangier		Tangier (35.48 N, 05.48 W), Morocco
	VI.1914		VI.1914
	Rec'd. from Dr. J. Jijournaut		Rec'd. from Dr. J. Jijournaut
N	2852, a	N	2852, a
		RML	111734
	(2852) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(2852) 18 ♂, 13 ♀ <u>Hyalomma marginatum</u>
	(a) <u>Rhipicephalus bursa</u> 1 ♀		(a) 1 ♀ <u>Rhipicephalus bursa</u>
	Horse		Horse
	Casablanca		Casablanca (33.37 N, 07.35 W), Morocco
	V.1914		V.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut
N	2853, a	N	2853, a
		RML	111735
	(2853) <u>Hyalomma aegyptium</u> ♂'s		(2853) 11 ♂ <u>Hyalomma anatolicum</u>
	(a) <u>Boophilus australis</u> 2 ♀		<u>excavatum</u>
			(a) 2 ♀ <u>Boophilus annulatus</u>
	Dog		Dog
	Tangier		Tangier (35.48 N, 05.48 W), Morocco
	IV.1914		IV.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut

ORIGINAL DETERMINATIONCURRENT STATUS

N	2854, a-c	N	2854, a, c
		RML	111736
	(2854) <u>Hyalomma aegyptium</u> 1 ♂, 3 ♀		(2854) 2 ♂, 2 ♀ <u>Hyalomma marginatum</u>
	(a) <u>Rhipicephalus bursa</u> 3 ♂, 4 ♀		(a) 3 ♂, 3 ♀ <u>Rhipicephalus bursa</u>
	(b) <u>Rhipicephalus sanguineus</u> 2 ♂, 3 ♀		(b) MISSING
	(c) <u>Rhipicephalus bursa</u> 1 ♂ (1 lost) with some approach to <u>R. sanguineus</u> C.W. det. 9.I.1915		(c) 1 ♂ <u>Rhipicephalus bursa</u>
	Pig		<u>Sus scrofa</u>
	Casablanca		Casablanca (33.37 N, 07.35 W), Morocco
	V.1914		V.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut
N	2855, a	N	2855, a
		RML	111737
	(2855) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(2855) 11 ♂, 5 ♀ <u>Hyalomma marginatum</u>
	(a) <u>Rhipicephalus bursa</u> 1 ♀		(a) 1 ♀ <u>Rhipicephalus bursa</u>
	Horse		Horse
	Tangier		Tangier (35.48 N, 05.48 W), Morocco
	IV.1914		IV.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut
N	2856	N	2856 MISSING
	<u>Rhipicephalus bursa</u> ♂'s, ♀'s		
	Sheep		
	Casablanca, Morocco		
	V.1914		
	Rec'd. from Dr. Jijournaut		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2857	N	2857
		RML	111738
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		36 ♂, 56 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Tangier		Tangier (35.48 N, 05.48 W), Morocco
	V-VI.1914		V-VI.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut
N	2858	N	2858 MISSING
	<u>Rhipicephalus sanguineus</u> 1 ♂		
	Off ?		
	Tangier, Morocco		
	X.1913		
	Rec'd. from Dr. Jijournaut		
N	2859, a	N	2859, a
		RML	111739
	(2859) <u>Rhipicephalus bursa</u> ♂'s, ♀'s		(2859) 23 ♂, 20 ♀ <u>Rhipicephalus bursa</u>
	(a) <u>Hyalomma aegyptium</u> ♂, ♀		(a) 1 ♂, 1 ♀ <u>Hyalomma marginatum</u>
	Ox		Ox
	Casablanca		Casablanca (33.37 N, 07.35 W), Morocco
	V.1914		V.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2860, a	N	2860, a
		RML	111740
	(2860) <u>Hyalomma aegyptium</u> 2 ♂, 3 ♀ (a) <u>Rhipicephalus bursa</u> 1 ♂, 3 ♀		(2860) 2 ♂, 3 ♀ <u>Hyalomma marginatum</u> (a) 1 ♂, 3 ♀ <u>Rhipicephalus bursa</u>
	Donkey		Donkey
	Casablanca		Casablanca (33.37 N, 07.35 W), Morocco
	V.1914		V.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut
N	2861	N	2861 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Camels		
	Casablanca, Morocco		
	IV.1914		
	Rec'd. from Dr. Jijournaut		
N	2862, a	N	2862, a
		RML	111741
	(2862) <u>Hyalomma aegyptium</u> 2 ♀ (a) <u>Rhipicephalus bursa</u> 2 ♂		(2862) 2 ♀ <u>Hyalomma marginatum</u> (a) 2 ♂ <u>Rhipicephalus bursa</u>
	Camels		<u>Camelus dromedarius</u>
	Tangier		Tangier (35.48 N, 05.48 W), Morocco
	VI.1914		VI.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut

ORIGINAL DETERMINATIONCURRENT STATUS

N 2863, a-c

N 2863, a, c

RML 111742

(2863) Hyalomma aegyptium(2863) 27 ♂, 30 ♀ Hyalomma anatolicum excavatum(a) Boophilus annulatus(a) 1 ♂, 41 ♀ Boophilus annulatus(b) Rhipicephalus sanguineus
2 ♂, 4 ♀, 1 N

(b) MISSING

(c) Rhipicephalus bursa 2 ♂, 4 ♀(c) 2 ♂, 4 ♀ Rhipicephalus bursa

Cattle

Cattle

Tangier

Tangier (35.48 N, 05.48 W), Morocco

IV.1914

IV.1914

Rec'd. from Dr. Jijournaut

Rec'd. from Dr. Jijournaut

Ticks retained from specimens sent for determination by the Indian Museum
(per Dr. Annandale), Calcutta, India, 22 June, 1914 (Chilka Survey):-

N 2864

N 2864

RML 71470

Haemaphysalis bispinosa ♂'s, ♀'s11♂, 3 ♀ Haemaphysalis intermediaViverricula malaccensis (Gmel.)Viverricula indicaSatpara, Puri District, Orissa,
India

Satpara (19.39 N, 85.26 E), India

17.III.1914

17.III.1914

Dr. N. Annandale

Dr. N. Annandale

Indian Mus. No. $\frac{2140}{17}$

ORIGINAL DETERMINATIONCURRENT STATUS

N 2865

N 2865

RML 72830

Haemaphysalis parva 1 ♂, 2 ♀1 ♂, 2 ♀ Haemaphysalis intermediaFelis viverrina BennettFelis viverrinaSatpara, Puri District, Orissa,
India

Satpara (19.39 N, 85.26 E), India

16.III.1914

16.III.1914

Dr. N. Annandale

Dr. N. Annandale

Indian Mus. No. 2141
17

Ticks CO-TYPES (!) presented by Prof. L. G. Neumann of the École Nationale Vétérinaire, Toulouse, 16.VI.1914 (we sent him co-types of our species in exchange).

[Neumann's syntypes comprise Nuttall catalogue numbers 2866-2870, 2872, 2873-2885, 2887-2894, 2896-2898 - J.E.K.]

N 2866

N 2866

RML 111743

Amblyomma albopictum
Neumann 1899, 1 ♂1 ♂ Amblyomma albopictum
SYNTYPECyclura harlaniCyclura nubila nubila

Guiana

Havana (23.08 N, 82.22 W), Cuba

Lucas coll., rec'd. from Paris Museum, being the co-types of Ixodes variegatus Lucas, 1852 of which there were about 40 ♂ in Paris.

Lucas coll., rec'd. from Paris Museum, being the co-types of Ixodes variegatus Lucas, 1852 of which there were about 40 ♂ in Paris.

Neumann No. 897.

Neumann (1899: 244) original description with locality of Havana. Cited & figured: Robinson (1926: 155, 156).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2867

N 2867

RML 111744

Amblyomma testudinis (Conil, 1877)
1 ♂ [species epithet argentinae
crossed out]

1 ♂ Amblyomma testudinis
Syntype of A. argentinae

Testudo argentinaeGeochelone chilensis

Argentine Republic

Argentina

Received 22.II.1904

Received 22.II.1904

Received from F. Lahille

Received from F. Lahille

Neumann No. 1282

Neumann (1905: 226) original description
of A. argentinae. Cited: Robinson
(1926: 162) but without Nuttall number.

N 2868

N 2868

RML 111745

Amblyomma australiense
Neumann, 1905 1 ♂

1 ♂ Amblyomma australiense
SYNTYPE

Echidna aculeataTachyglossus aculeatus

Mr. Anderson, West Australia

Mt. Anderson (17.58 S, 124.04 E),
Australia

1903

1903

Hon. N. C. Rothschild coll.

Hon. N. C. Rothschild coll.

Neumann No. 1271

Neumann (1905: 224), original description.
Robinson (1926: 137) cited this and
other Neumann specimens but without
Nuttall number and gave the collection
date as 1900 and collector as G. Shaw.
He was actually the author of
Echidna aculeata not the collector
of the ticks.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2869	N	2869
		RML	111746
<u>Amblyomma calcaratum</u> Neumann, 1899, 1 ♂, 1 ♀		1 ♀ <u>Amblyomma calcaratum</u> SYNTYPE	
<u>Myrmecophaga tetradactyla</u>		<u>Tamandua tetradactyla</u>	
Colonia Alpina, Brazil		Colonia Alpina, Brazil (locality not verified)	
Received 1894		Received 1894	
Received from Prof. Goeldi		Received from Prof. Goeldi	
Neumann No. 828.		Neumann (1899: 226), original description. Cited & Figured: Robinson (1926: 192-194).	
N	2870	N	2870
		RML	111747
<u>Amblyomma coelebs</u> Neumann 1899, 1 ♂		1 ♂ <u>Amblyomma coelebs</u> SYNTYPE	
Off ?		Off ?	
Guanajuato, Mexico		Guanajuato, Mexico (locality not verified; there are 4 populated places and one state with the name Guanajuato)	
Received 1896		Received 1896	
Received from A. Dugès		Received from A. Dugès	
Neumann No. 824.		Neumann (1899: 223), original description. Robinson (1926: 33) incorrectly gave it Nuttall No. 2780.	

ORIGINAL DETERMINATIONCURRENT STATUS

N	2871	N	2871
		RML	111748
	<u>Amblyomma coelebs</u> Neumann 1899, 1 ♀		1 ♀ <u>Amblyomma coelebs</u>
	<u>Tapirus</u> sp.		<u>Tapirus</u> sp.
	Province of Chiquitos, Bolivia		Provincia Chiquitos (18.00 S, 60.00 W), Bolivia
	Received 1905		Received 1905
	Received from British Museum		Received from British Museum
	Neumann No. 1370 (see Neumann, 1906 p. 213)		Neumann (1906: 213) first description of ♀. Robinson (1926: 32) figured this specimen but incorrectly gave it Nuttall No. 2781.
N	2872	N	2872
		RML	111749
	<u>Amblyomma concolor</u> Neumann, 1899, 1 ♀		1 ♀ <u>Amblyomma auricularium</u> SYNTYPE of <u>A. concolor</u>
	<u>Dasypus</u> sp.		<u>Dasypus</u> sp.
	Belém Pará , Brazil		Belém (01.27 S, 48.29 W), Brazil
	Received 1896		Received 1896
	M. Rebourgeon Received from Raphael Blanchard		M. Rebourgeon Received from Raphael Blanchard
	Neumann No. 823.		Neumann (1899: 222), original description of <u>A. concolor</u> . Cited & figured: Robinson (1926: 68). The capitulum of this ♀ is missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2873

N 2873

RML 111750

Amblyomma goeldii
Neumann, 1899 1 ♂

1 ♂ Amblyomma goeldii
SYNTYPE

Myrmecophaga tetradactyla

Tamandua tetradactyla

Belém di Pará , Brazil

Belém (01.27 S, 48.29 W), Brazil

Received 28.I.1897

Received 28.I.1897

Received from Prof. Goeldi

Received from Prof. Goeldi

Neumann No. 849.

Neumann (1899: 238), original
description. Cited & figured:
Robinson (1926: 242, 244).

N 2874

N 2874

RML 111751

Amblyomma goeldii
Neumann, 1899 1 ♀

1 ♀ Amblyomma rotundatum
Misidentified by Neumann as
A. goeldii

Bufo aqua

Bufo marinus

Pará, Brazil

Belém (01.27 S, 48.29 W), Brazil

Rec'd. 28.I.1897

Rec'd. 28.I.1897

Rec'd. from Prof. Goeldi

Rec'd. from Prof. Goeldi

Neumann No. 848.

Neumann (1899: 238), original
description of A. goeldii. Cited
& figured: Robinson (1926: 243,244).

This specimen is being retained in
the jar containing A. goeldii specimens.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2875

Amblyomma nodosum

Naumann, 1899 1 ♂, 1 ♀

Off ?

Costa Rica

Received 1896

de Lafon. Received from the
Paris Museum

Neumann No. 892.

N 2875

RML 111752

1 ♂, 1 ♀ Amblyomma nodosum
SYNTYPES

Off ?

Costa Rica

Received 1896

de Lafon. Received from the
Paris MuseumNeumann (1899: 224) original
description. Cited & figured:
Robinson (1926: 197-199).

N 2876

Amblyomma scutatum

Neumann, 1899, 1 ♂, 1 ♀

Lizard

Guatemala

Received 1885

Received from M. Soula

Neumann No. 896.

N 2876

RML 111753

1 ♂, 1 ♀ Amblyomma scutatum
SYNTYPES

Lizard

Guatemala

Received 1885

Received from M. Soula

Neumann (1899: 237), original
description. Cited & figured:
Robinson (1926: 203, 204) who incorrectly
gave the collector and date as "Sorda
coll., 1855". Whittick (1939: 438)
figured this ♀.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2877

N 2877

RML 111754

Aponomma ecinctum
Neumann, 1901, 1 ♂

1 ♂ Aponomma fimbriatum
SYNTYPE of A. ecinctum

Off ? (stated by W. W. Froggatt
to occur on a beetle: Aulacocyclus
kaupi!)

Off ? (stated by W. W. Froggatt to
occur on a beetle: Aulacocyclus
kaupi!)

New South Wales, Australia

New South Wales, Australia

Rec'd. 30.I.1900

Rec'd. 30.I.1900

Rec'd. from W. W. Froggatt

Rec'd. from W. W. Froggatt

Neumann No. 792.

Neumann (1901: 293) original
description of A. ecinctum.

A second vial contains the right
tarsus I of this male along with the
note - "right tarsus I broken off
but returned to tube.
D.S.B. 2/6/36".

N 2878

N 2878

RML 111755

Aponomma oudemansi
Neumann, 1910 1 ♂

1 ♂ Aponomma oudemansi
SYNTYPE

Zaglossus (Proechidna) bruyni
nigrolineatus Roth.

Tachyglossus aculeatus

Fak Fak, New Guinea

Fakfak (02.55 S, 132.18 E),
Papua, New Guinea

Received 1909

Received 1909

Received from Dr. A. C. Oudemans

Received from Dr. A. C. Oudemans

Neumann No. 1755.

Neumann (1910: 11), original
description. Kaufman (1972) considered
A. oudemansi to be a synonym of A.
concolor. This ♂ definitely has no
ventral lobes on palpal articles II
which makes A. concolor such an easy
species to identify. Kaufman did not
see the types of A. concolor or A.
oudemansi but based his decision on
figures of the species.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2879

N 2879

RML 111756

Aponomma pattoni Neumann, 1897, 1 ♂1 ♂ Aponomma pattoni SYNTYPE

Snake

Snake

Saidapet, East Indies

Probably Saidapet (13.02 N, 80.13 E),
India

Rec'd. 1907

Rec'd. 1907

Rec'd. from Dr. W. S. Patton

Rec'd. from Dr. W. S. Patton

Neumann No. 1761.

Neumann (1910b: 163), original
description.

N 2880

N 2880

RML 111757

Dermacentor nitens
Neumann, 1897, 2 ♂, 2 ♀1 ♂, 3 ♀ Anocentor nitens
SYNTYPESEquus caballusEquus caballus

Santa Cruz, Jamaica

Santa Cruz (18.03 N, 77.42 W), Jamaica

Received 1897

Received 1897

Received from the Jamaica Institute

Received from the Jamaica Institute

Neumann No. 1039.

Neumann (1897: 376), original
description.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2881

Haemaphysalis ambigua
Neumann 1901, 1 ♀

Off ?

France

Received 1894

Received from E. Simon

(= H. inermis Birula, 1895)
Neumann No. 1039.

N 2881

RML 111758

1 ♀ Haemaphysalis inermis
SYNTYPE of H. ambigua

Off ?

France

Received 1894

Received from E. Simon

Neumann (1901: 262), original
description.

N 2882

Haemaphysalis calcarata
Neumann, 1902 1 ♂Spermosciurus sp.

Sichi, Balz, Abyssinia

Rec'd. 1901

Hilgert coll. Rec'd. from
von Erlanger(Exactly like our N. 1203)
Neumann No. 1292.

N 2882

RML 111759

1 ♂ Haemaphysalis calcarata
SYNTYPEXerus sp.Sichi, Balz, Ethiopia (locality not
verified)

Rec'd. 1901

Hilgert coll. Rec'd. from von Erlanger

Neumann (1902: 113), original
description. Cited: Nuttall &
Warburton (1915: 444); Hoogstraal
(1955: 362).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2883

Haemaphysalis cornigera
Neumann, 1897, 1 ♂

Cervus sp.

Borneo

Rec'd. 1894

Rec'd. from Raphael Blanchard

Neumann No. 1008.

N 2883

RML 69995

1 ♂ Haemaphysalis cornigera
Paralectotype

Cervus sp.

Borneo

Rec'd. 1894

Rec'd. from Raphael Blanchard

Neumann (1897: 350), original description. Cited & figured: Nuttall & Warburton (1915: 501, 504). Neumann collection 1008 consisted of 2 ♂. Trapido (1965: 157) selected the ♂ in the collection at Toulouse as lectotype.

N 2884

Haemaphysalis elongata
Neumann, 1897, 1 ♂

Centetes madagascariensis

Zura, Madagascar

Rec'd. 1894

Rec'd. from Sikora

Neumann No. 1009.

N 2884

RML 71067

1 ♂ Haemaphysalis elongata
SYNTYPE

Tenerec ecaudatus

Zura, Democratic Republic of
Madagascar (locality not verified)

Rec'd. 1894

Rec'd. from Sikora

Neumann (1897: 354), original description. Cited: Nuttall & Warburton (1915: 500); Hoogstraal (1953: 58).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2885

N 2885

RML 111760

Haemaphysalis elongata
Neumann, 1897, 1 N1 N Haemaphysalis elongata
SYNTYPEErinaceus sp.Erinaceus sp.

Madagascar

Democratic Republic of Madagascar

Rec'd. 1894

Rec'd. 1894

Rec'd. from Sikora

Rec'd. from Sikora

Neumann No. 1011.

Neumann (1897: 354) original
description. Cited: Nuttall &
Warburton (1915: 500).

N 2886

N 2886

RML 111761

Haemaphysalis flava, Neumann,
1897, 1 ♀1 ♀ Haemaphysalis campanulata
Misidentified by Neumann as H. flava.Canis familiarisCanis familiaris

Tokio, Japan

Tokyo (35.42 N, 139.46 E) Japan

Rec'd. 1894

Rec'd. 1894

Rec'd. from Janson

Rec'd. from Janson

(= H. campanulata Warburton, 1908,
not the H. flava descr. by Neumann
originally).
Neumann No. 990.

Cited: Nuttall & Warburton (1915: 492).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2887	N	2887
		RML	111762
	<u>Haemaphysalis</u> <u>parmata</u> Neumann, 1905, 1 ♂		1 ♂ <u>Haemaphysalis</u> <u>parmata</u> SYNTYPE
	<u>Bos</u> <u>taurus</u>		<u>Bos</u> <u>taurus</u>
	Njanga, Cameroon		Perhaps Nganga (02.56 N, 12.17 E), or (04.19 N, 12.33 E), Cameroon
	Rec'd. 1904		Rec'd. 1904
	Rec'd. from Dr. H. Ziemann		Rec'd. from Dr. H. Ziemann
	Neumann No. 1288.		Neumann (1905: 288), original description. Cited: Nuttall & Warburton (1915: 421).
N	2888	N	2888
		RML	111763
	<u>Haemaphysalis</u> <u>parmata</u> Neumann, 1905, 1 ♀		1 ♀ <u>Haemaphysalis</u> <u>parmata</u> SYNTYPE
	<u>Capra</u> <u>hircus</u>		<u>Capra</u> <u>hircus</u>
	Mbula, Cameroon		Mboula (06.40 N, 13.59 E), Cameroon
	Rec'd. 1904		Rec'd. 1904
	Rec'd. from H. Ziemann		Rec'd. from H. Ziemann
	Neumann No. 1289.		Neumann (1905: 228), original description. Cited: Nuttall & Warburton (1915: 421).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2889

N 2889

RML 76104

Haemaphysalis parva
Neumann, 1908, 1 ♂, 1 ♀

1 ♂, 1 ♀ Haemaphysalis intermedia
SYNTYPE of H. parva

Canis aureusCanis aureus

Ceylon

Sri Lanka

Rec'd. 1907

Rec'd. 1907

Rec'd. from Prof. Galli-Valerio

Rec'd. from Prof. Galli-Valerio

Neumann No. 1426.

Neumann (1908a: 89), original
description. Cited: Nuttall &
Warburton (1915: 437); Hoogstraal &
Trapido (1963b: 838).

N 2890

N 2890

RML 111764

Haemaphysalis numidiana
Neumann, 1905, 1 ♂

1 ♂ Haemaphysalis erinacei
SYNTYPE of H. numidiana

Erinaceus sp.Erinaceus sp.

Tebessa, Algeria

Tebessa (35.24 N, 08.07 E), Algeria

Rec'd. 1894

Rec'd. 1894

Rec'd. from Fayet

Rec'd. from Fayet

Neumann No. 999.

Neumann (1905: 230), original
description. Cited: Neumann (1897:
349 as H. leachi); Nuttall & Warburton
(1915: 479); Hoogstraal (1955c: 221).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2891

N 2891

Haemaphysalis simplex
Neumann, 1897, 1 ♂

RML 71079

1 ♂ Haemaphysalis simplex SYNTYPEErinaceus sp.Setifer setosus

Madagascar

Democratic Republic of Madagascar

Rec'd. 1894

Rec'd. 1894

Rec'd. from Sikora

Rec'd. from Sikora

(The specimen has no lateral
grooves).
Neumann No. 998.

Neumann (1897: 345), original
description. Cited: Nuttall &
Warburton (1915: 460); Hoogstraal
(1953: 51).

N 2892

N 2892

Rhipicentor vicinus
Neumann, 1908, 1 ♂, 1 ♀

RML 111765

1 ♂, 1 ♀ Rhipicentor nuttalli
SYNTYPES of R. vicinus

Erinaceus frontalisErinaceus frontalis

Pretoria, Transvaal

Pretoria (25.45 S, 28.10 E),
Republic of South Africa

Rec'd. 1907

Rec'd. 1907

Rec'd. from C. W. Howard

Rec'd. from C. W. Howard

(= R. nuttalli Cooper & Robinson
II. 1908).
Neumann No. 1727.

Neumann (1905b: 170), original
description.
♀ vulva removed and mounted on a slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2893

N 2893

RML 111766

Rhipicephalus appendiculatus
Neumann, 1901, 1 ♂, 1 ♀1 ♂, 1 ♀ Rhipicephalus appendiculatus
SYNTYPESBos cafferSyncerus caffer

Tangani, German East Africa

Perhaps Tangeni (06.56 S, 37.36 E),
Tanzania

Rec'd. 1900

Rec'd. 1900

Rec'd. from Schillings

Rec'd. from Schillings

Neumann No. 1143.

Neumann (1901: 270), original
description.

N 2894

N 2894

RML 111767

Rhipicephalus deltoideus
Neumann, 1910, 1 ♀1 ♀ Rhipicephalus deltoideus
SYNTYPE

Off ?

Off ?

Basutoland, South Africa

Lesotho

Rec'd. from C. P. Lounsbury

Rec'd. from C. P. Lounsbury

Neumann No. 1721.

Neumann (1910a: 13), original
description.The vulva has been removed and
mounted on a slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2895

Rhipicephalus falcatus
Neumann, 1908, 1 ♂, 1 ♀

Off ?

North of Lake Nyasa
Brit. Centr. Africa

Rec'd. 1907

Dr. Old. Rec'd. from
British Museum

Neumann No. 1438.

N 2895 MISSING

N 2896

Rhipicephalus nitens
Neumann, 1904, 1 ♂

Off vegetation

Stellenbosch, southeast of
Cape Colony

Rec'd. 1903

Rec'd. from Mr. C. P. Lounsbury
(a good specimen)

Neumann No. 1783.

N 2896

RML 111768

1 ♂ Rhipicephalus nitens
SYNTYPE

Off vegetation

Stellenbosch (33.56 S, 18.51 E),
Republic of South Africa

Rec'd. 1903

Rec'd. from Mr. C. P. Lounsbury
(a good specimen)

Neumann (1904: 462), original
description.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2897

Rhipicephalus rossicus
Yakimoff, 1911, 1 ♂, 1 ♀

Canis familiaris

Government of Saratow, Russia

Rec'd. 1910

Rec'd. from Yakimoff

Neumann No. 1783.

N 2897

RML 111769

1 ♂, 1 ♀ Rhipicephalus rossicus
SYNTYPES

Canis familiaris

Saratov (51.34 N, 46.02 E), U.S.S.R.

Rec'd. 1910

Rec'd. from Yakimoff

Yakimov & Kol-Yakimova (1911: 419),
original description.

♀ vulva removed and mounted on a slide.

N 2898

Rhipicephalus ziemanni
Neumann, 1904, 1 ♂, 1 ♀

Cattle

Cameroon

Dr. Ziemann

Neumann No. 1244.

N 2898

RML 111770

1 ♂, 1 ♀ Rhipicephalus ziemanni
SYNTYPES

Cattle

Cameroon

Dr. Ziemann

Neumann (1904: 464), original
description. Cited: Clifford &
Anastos (1962: 31).

♀ vulva removed and mounted on a
slide.

Ticks received back from the Imperial Bureau of Entomology (ex.
Report No. 35), London S.W.:-

ORIGINAL DETERMINATIONCURRENT STATUS

N 2899

N 2899

RML 111771

Amblyomma cajennense ♂, ♀1 ♂, 1 ♀ Amblyomma cajennense

Off ?

Off ?

Greeklands Canje Ch., Brit. Guiana

Perhaps a locality along Canje Creek
(06.16 N, 57.31 W), Guyana

7.VI.1913

7.VI.1913

Rev. J. Aiken

Rev. J. Aiken

I.B.E. No. 873.

N 2900

N 2900

RML 111772

Amblyomma splendidum ♂, ♀5 ♂, 3 ♀ Amblyomma splendidum

Buffalo

Syncerus caffer

Tagi, N. Nigeria, West Africa

Tagi, Nigeria (locality not verified)

27.IV.1913

27.IV.1913

Dr. G. F. Petrie

Dr. G. F. Petrie

I.B.E. No. 875.

Cited: Robinson (1926: 125).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2901

Haemaphysalis bispinosa ♂, ♀, N

Goats

Hakgala, Ceylon

27.III.1914

A. Rutherford

I.B.E. No. 876a

N 2901

RML 111773

1 ♂, 3 ♀, 2 N Haemaphysalis bispinosa

Goats

Hakgala (06.55 N, 80.49 E), Sri Lanka

27.III.1914

A. Rutherford

Cited: Nuttall & Warburton
(1915: 432)

N 2902, a

(2902) Amblyomma cohaerens ♂'s, ♀'s
(a) Rhipicephalus dux 2 ♀

Buffalo

Beni, Belgian Congo, Central Africa

20.V.1914

Rec'd. from F. Harker, Esq., Mission
de Prospection, Beni, 29 June, 1914

F. Harker, in his letter of 20.V.1914
says of Beni: "altitude of present
camp 3510 ft., Lat. 0.30'.00N, Long.
29.05'.00E. The country I am in now
is dense jungle & game is scarce.
Population there is none practi-
cally and pigmies are here today &
on the trail of a wounded elephant
miles away tomorrow."

Letter destroyed

27.IX.1914 G.H.F.N.

N 2902, a

RML 111774

(2902) 6 ♂, 3 ♀ Amblyomma cohaerens
(a) 2 ♀ Rhipicephalus duxSyncerus cafferBeni (00.30 N, 29.28 E), Nord-Kivu,
Zaire

20.V.1914

Rec'd. from F. Harker, Esq., Mission
de Prospection, Beni, 29 June, 1914

(2902) cited: Robinson (1926: 110).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2903

N 2903

RML 111775

Haemaphysalis novae-guineae
Hirst, 1914, 1 ♂, 1 ♀ CO-TYPES

1 ♂, 1 ♀ Haemaphysalis novaeguineae
Paralectotypes

Hydromys sp.Hydromys sp.

Sattelberg, Huon Gulf,
German New Guinea

Sattelberg, Huon Gulf (07.10 S,
147.25 E), Papua, New Guinea

1911

1911

Professor F. Forster coll.

Professor F. Forster

[Presented by the British Museum
(Nat. Hist.), London, 3 July, 1914]

Hirst (1914: 328), original
description. Cited: Nuttall &
Warburton (1915: 452). Roberts
(1963: 57) selected paralectotypes
from specimens in the British Museum
(Nat. Hist.) to which this collection
originally belonged before being
presented to Prof. Nuttall. There-
fore the ♂ & ♀ of this collection
(N2903) are paralectotypes.

Ticks retained from the collection sent for determination by the Deutsches
Entomologisches Museum (per Professor Dr. S. Schenkling), Gossler-Strasse 20,
Berlin-Dahlem, Germany, 6 March, 1914:-

N 2904

N 2904 MISSING

Hyalomma aegyptium 2 ♀

Off ?

Karawaserei, N.W. Persia

No date

Dr. Blau

D.E.M. No. 1

ORIGINAL DETERMINATIONCURRENT STATUS

N 2905

N 2905 MISSING

Haemaphysalis bispinosa ♀'s

Off ?

Tsingtau, China

No date

Professor Hoffmann

D.E.M. No. 3.

N 2905z, a

N 2905z, a MISSING

(2905z) Haemaphysalis hystrix ♂'s(a) Dermacentor niveus 2 ♂

Hedgehog

Tsingtau, China

No date

Prof. Hoffmann

D.E.M. No. 13, 13a.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2906, a-c

N 2906, a-c

RML 90006

(2906) Rhipicephalus cuneatus ♂'s, ♀'s
 (a) Rhipicephalus dux 2 ♂, 1 ♀
 (b) Amblyomma cohaerens 1 ♂, 2 N's
 (c) Haemaphysalis parvata 1 ♂ (large!)

(2906) 3 ♂, 3 ♀ Rhipicephalus ziemanni
 (a) 1 ♂, 1 ♀ Rhipicephalus dux
 (b) 1 ♂, 2 N Amblyomma cohaerens
 (c) 1 ♂ Haemaphysalis parvata

Buffalo

Syncerus caffer

Beni, Belgian Congo, Central Africa

Beni (00.30 N, 29.28 E), Nord-Kivu,
Zaire

31.V.1914

31.V.1914

F. Harker

F. Harker

(2906b) cited: Robinson (1926: 110);
 (2906c) Nuttall & Warburton
 (1915: 421) gave the collection
 date as 31.VI.1913.

Note in vial with (2906a) "Only
 2 ticks 26.X.1934."

Collection of ticks received from Dr. M. Miyajima, Imperial Institute for
 the study of Infectious Diseases, Tokio, Japan, 6 July, 1914:-

N 2907, a

N 2907, a

RML 111776

(2907) Dermacentor niveus 2 ♂, 3 ♀
 (a) Haemaphysalis hystricis ♀'s

(2907) 2 ♂, 3 ♀ Dermacentor sp.
 (a) 3 ♀ Haemaphysalis longicornis

Horse

Horse

Aomori, North-Central Japan

Aomori (40.49 N, 140.45 E), Japan

15.VII.1912

15.VII.1912

Rec'd. from Dr. Miyajima

Rec'd. from Dr. Miyajima

Miyajima No. 1

(2907a) cited: Nuttall & Warburton
 (1915: 433).

2907 reexamined 19.VII.21 by
 G.H.F.N. & referred to niveus
 as C.W. had previously noted it
 recalls reticulatus ♂ pattern.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2908, a	N	2908
		RML	111777
	(2908) <u>Haemaphysalis bispinosa</u> ♂'s, ♀'s, larvae		(2908) 8 ♀ <u>Haemaphysalis longicornis</u>
	(a) <u>Ixodes ricinus</u> 1 ♀		(a) MISSING
	Horse		Horse
	Daisen, North-western part of Central Japan		Daisen (35.23 N, 133.32 E), Japan
	2.VIII.1912		2.VIII.1912
	Rec'd. from Dr. M. Miyajima		Rec'd. from Dr. M. Miyajima
	Miyajima No. 2.		Cited: Nuttall & Warburton (1915: 433).
	(2908) 1 ♂, 1 ♀ to Prof. E. Brumpt, École Médecine, Paris 12.X.1922.		
N	2909, a, b	N	2909, a
		RML	111778
	(2909) <u>Haemaphysalis bispinosa</u> ♀'s		(2909) 1 ♂, 9 ♀ <u>Haemaphysalis</u> <u>longicornis</u>
	(a) <u>Amblyomma testudinarium</u> 2 ♀		(a) 2 ♀ <u>Amblyomma testudinarium</u>
	(b) <u>Ixodes ricinus</u> 1 ♂, 2 ♀		(b) MISSING
	Horse		Horse
	Takanabe, Kiushiu		Takanabe (32.08 N, 131.30 E), Kyushu, Japan
	5-VI-12.X.1912		5-VI-12.X.1912
	Rec'd. from Dr. M. Miyajima		Rec'd. from Dr. M. Miyajima
	Miyajima No. 3.		(2909) Cited: Nuttall & Warburton (1915: 433); Hoogstraal et al (1968: 1206); (2909a) Robinson (1926: 257).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2910

Boophilus australis ♀'s

Cattle

Hiroshima, Sanyado

5.VIII.1910

Rec'd. from Dr. M. Miyajima

Miyajima No. 4.

N 2910

RML 111779

4 ♀ Boophilus microplus

Cattle

Hiroshima (34.24 N, 132.27 E),
Japan

5.VIII.1910

Rec'd. from Dr. M. Miyajima

N 2911, a

(2911) Boophilus australis
(a) Haemaphysalis bispinosa 1 ♀

Cattle

Tokio, Central Japan

16.X.1911

Rec'd. from Dr. M. Miyajima

Miyajima No. 5.

N 2911, a

RML 111780

(2911) 6 ♀ Boophilus microplus
(a) 1 ♀ Haemaphysalis flava

Cattle

Tokyo (35.42 N, 139.46 E), Japan

16.X.1911

Rec'd. from Dr. M. Miyajima

(2911a) Tentative I.D.

N 2912

Boophilus australis ♂'s, ♀, L & eggs

Cattle

Taihoku, Formosa

23.IV.1911

Rec'd. from Dr. M. Miyajima

Miyajima No. 6.

N 2912

RML 111781

3 ♂, 4 ♀, 4 L Boophilus microplus

Cattle

Taihoku, Taiwan (locality not verified)

23.IV.1911

Rec'd. from Dr. M. Miyajima

ORIGINAL DETERMINATIONCURRENT STATUS

N	2913	N	2913
	<u>Boophilus australis</u> ♀'s, N's	RML	111782
	Cattle		6 ♀, 2 N <u>Boophilus microplus</u>
	Koshin, Formosa		Cattle
	3.IX.1910		Koshin (23.21 N, 121.12 E), Taiwan
	Rec'd. from Dr. M. Miyajima		3.IX.1910
	Miyajima No. 7.		Rec'd. from Dr. M. Miyajima
N	2914, a-c	N	2914, a-c
	(2914) <u>Boophilus australis</u> 2 ♀	RML	22304
	(a) <u>Amblyomma testudinarium</u> 1 ♀		(2914) 2 ♀ <u>Boophilus microplus</u>
	(b) <u>Rhipicephalus sanguineus</u> 1 ♀		(a) 1 ♀ <u>Amblyomma testudinarium</u>
	(c) <u>Haemaphysalis warburtoni</u> 1 ♂		(b) 1 ♀ <u>Rhipicephalus sanguineus</u>
	Cattle		(c) 1 ♂ <u>Haemaphysalis formosensis</u>
	Taihoku, Formosa		Cattle
	16.VII.1909		Taihoku, Taiwan (locality not verified)
	Rec'd. from Dr. M. Miyajima		16.VII.1909
	Miyajima No. 8.		Rec'd. from Dr. M. Miyajima
N	2915	N	2915
	<u>Boophilus australis</u> ♀'s	RML	111783
	Native cattle		8 ♀ <u>Boophilus microplus</u>
	Koshin, Formosa		Cattle
	4.VII.1907		Koshin (23.21 N, 121.12 E), Taiwan
	Rec'd. from Dr. M. Miyajima		4.VII.1907
	Miyajima No. 9.		Rec'd. from Dr. M. Miyajima

ORIGINAL DETERMINATIONCURRENT STATUS

N	2916, a	N	2916, a
		RML	111784
	(2916) <u>Boophilus australis</u> ♀'s, N's (a) <u>Amblyomma testudinarium</u> 1 ♂, 1 ♀		(2916) 9 ♀, 5 N <u>Boophilus microplus</u> (a) 1 ♂, 1 ♀ <u>Amblyomma testudinarium</u>
	Water buffalo		<u>Bubalus bubalis</u>
	Koshin, Formosa		Koshin (23.21 N, 121.12 E), Taiwan
	7.VIII.1911		7.VIII.1911
	Rec'd. from Dr. M. Miyajima		Rec'd. from Dr. M. Miyajima
	Miyajima No. 10.		(2916a) Cited: Robinson (1926: 257).
N	2917	N	2917
		RML	111785
	<u>Haemaphysalis campanulatus</u> ♂ & ♀		1 ♂, 1 ♀ <u>Haemaphysalis campanulata</u>
	House rat		<u>Rattus rattus</u> or <u>Rattus norvegicus</u>
	Tokio, Japan		Tokyo (35.42 N, 139.46 E), Japan
	11.IX.1912		11.IX.1912
	Rec'd. from Dr. M. Miyajima		Rec'd. from Dr. M. Miyajima
	Miyajima No. 11.		Cited: Nuttall & Warburton (1915: 492).
N	2918	N	2918
		RML	111786
	<u>Boophilus australis</u> ♀'s		4 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Yayeyama, Riu-kiu Islands		Yaeyama-Retto Island (24.20 N, 124.00 E), Ryukyū Islands, Japan
	2.X.1912		2.X.1912
	Rec'd. from Dr. M. Miyajima		Rec'd. from Dr. M. Miyajima
	Miyajima No. 12.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2919

Amblyomma testudinarium 1 ♀

Off ?

Amamioshima, Kiushiu

20.IV.1910

Rec'd. from Dr. M. Miyajima

Miyajima No. 13.

N 2919

RML 111787

1 ♀ Amblyomma testudinarium

Off ?

Perhaps Amamioshima Island
(28.15 N, 129.20 E), Ryukyu
Islands, Japan

20.IV.1910

Rec'd. from Dr. M. Miyajima

Cited: Robinson (1926: 257).

N 2920

Dermacentor niveus 1 ♀

Hedgehog

China

1907

Rec'd. from Dr. Miyajima

Miyajima No. 14

N 2920

RML 111788

1 ♀ Dermacentor asper

Hedgehog

Peoples Republic of China

1907

Rec'd. from Dr. Miyajima

Tentative ID.
Cited: Arthur (1960: 114).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2921

N 2921

RML 87420

Haemaphysalis campanulata ♂'s, ♀'s6 ♂, 6 ♀ Haemaphysalis campanulata

Dog

Dog

Tokio, Japan

Tokyo (35.42 N, 139.46 E), Japan

18.VI.1914

18.VI.1914

Rec'd from Dr. M. Miyajima

Rec'd from Dr. M. Miyajima

Miyajima No. 15

These specimens are in the Harry Hoogstraal collection, Cairo, Egypt.

Cited: Nuttall & Warburton
(1915: 492).

N 2922

N 2922

RML 66557

Rhipicephalus bursa ♂'s, ♀'s21 ♂, 6 ♀ Rhipicephalus bursa
1 ♂ Hyalomma marginatum

Cow

Cow

"Portezuelo" Farm, Teneriffe,
Canary Islands"Portezuelo" Farm, Tenerife
(29.19 N, 16.34 W), Canary Islands

28.VI.1914

28.VI.1914

Received from Dr. G. V. Perez
("La Quinto," Santa Ursula,
Teneriffe), 10 July, 1914.Received from Dr. G. V. Perez
("La Quinto," Santa Ursula,
Tenerife), 10 July, 1914.

Ticks received from W.H.J. van Heemstra, Esq., Oglan-Anassi, Djumowassi, Smyrna, Asiatic Turkey, 10 July, 1914:-

ORIGINAL DETERMINATION

CURRENT STATUS

N	2923	N	2923 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Camel		
	Djumowassi, Smyrna, Asiatic Turkey		
	2.VII.1914		
	Rec'd. from W.H.J. van Heemstra		
N	2924, a, b	N	2924a
		RML	111789
	(2924) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(2924) MISSING
	(a) <u>Rhipicephalus bursa</u> 1 ♀		(a) 1 ♀ <u>Rhipicephalus bursa</u>
	(b) <u>Rhipicephalus sanguineus</u> 1 ♀		(b) MISSING
	Goats		Goats
	Djumowassi, Smyrna, Asiatic Turkey		Djumowassi, Izmir (38.25 N, 27.09 E), Turkey
	2.VII.1914		2.VII.1914
	Rec'd. from W.H.J. van Heemstra		Rec'd. from W.H.J. van Heemstra
N	2925	N	2925
		RML	111790
	<u>Rhipicephalus sanguineus</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Djumowassi, Smyrna, Asiatic Turkey		Djumowassi, Izmir (38.25 N, 27.09 E), Turkey
	2.VII.1914		2.VII.1914
	Rec'd. from W.H.J. van Heemstra		Rec'd. from W.H.J. van Heemstra

ORIGINAL DETERMINATIONCURRENT STATUS

N 2926

Hyalomma aegyptium ♂'s, ♀'s

Camel

Djumowassi, Smyrna, Asiatic Turkey

2.VII.1914

Rec'd from W.H.J. van Heemstra

N 2926

RML 111791

2 ♂, 26 ♀ Hyalomma marginatum

Camelus dromedarius

Djumowassi, Izmir (38.25 N,
27.09 E), Turkey

2.VII.1914

Rec'd from W.H.J. van Heemstra

N 2927

Boophilus ? annulatus ♀'s

Cow (apparently suffering from
piroplasmosis).

Djumowassi, Smyrna, Asiatic Turkey

3.VII.1914

Rec'd from W.H.J. van Heemstra

[Used for raising experiments.]

N 2927 MISSING

Three tubes of ticks presented to Mr. Warburton by J.E.M. Mellor, who
collected them in Kashmir, North India, during 1912:-

N 2928

Haemaphysalis montgomeryi 1 ♂

Dog

Kashmir, India

1912

J.E.M. Mellor

N 2928

RML 111792

1 ♂ Haemaphysalis montgomeryi

Dog

Kashmir, India

1912

J.E.M. Mellor

Cited: Nuttall & Warburton (1915: 397).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2929

N 2929 MISSING

Ixodes ricinus 3 ♀

Dog

Kashmir, India

1912

J.E.M. Mellor

N 2930

N 2930

Dermacentor reticulatus 1 ♀

RML 111793

1 ♂ Dermacentor sp.

Dog

Dog

Kashmir, India

Kashmir, India

1912

1912

J.E.M. Mellor

J.E.M. Mellor

Ticks received from the Indian Museum (per Dr. N. Annandale) Calcutta, India,
12 July, 1914:-

N 2931, a

N 2931, a

RML 22301

(2931) Rhipicephalus sp. 2 nymphs(a) Haemaphysalis parva 2 ♂, 2 ♀(2931) 2 N Hyalomma sp.(a) 2 ♂, 1 ♀ Haemaphysalis intermediaLepus ruficaudatusLepus ruficaudatus

Satapara, Puri District
Orissa, India

Satapara, Puri, Orissa
(21.00 N, 84.00 E), India

16.III.1914

16.III.1914

Dr. N. Annandale

Dr. N. Annandale

(Ind. Mus. 2143)
17

(2931a) Cited: Hoogstraal & Trapido
(1963b: 838). Collection 2931a was
also given RML No. 72829 & 72832.

Ticks presented by the Deutsches Entomol. Museum, Berlin-Dahlem, 13.VII.1914, having been asked for by me, when I returned their specimens numbered 1-48 which were determined by C.W. & me. Pinned specimens:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	2932	N	2932
		RML	111794
	<u>Dermacentor reticulatus</u> (Fabr.) 1 ♂		1 ♂ <u>Dermacentor</u> sp.
	Off ?		Off ?
	Sarepta, Russia		Sarepta (49.40 N, 72.23 E), Kazakh S.S.R., U.S.S.R.
	No date		No date
	Kraatz coll.		Kraatz coll.
	D.E.M. No. 40.		A pinned specimen.
N	2933	N	2933
		RML	111795
	<u>Ixodes vespertilionis</u> Koch 1 ♂ (rare!)		1 ♂ <u>Ixodes vespertilionis</u>
	Off ?		Off ?
	Bosnia		Bosnia (44.00 N, 18.00 E), Yugoslavia
	No date		No date
	Roeschke coll.		Roeschke coll.
	D.E.M. No. 42.		A pinned specimen
			Cited: Nuttall (1916: 334).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2934	N	2934
		RML	111796
	<u>Amblyomma integrum</u> Karsch 1879 1 ♀		1 ♀ <u>Amblyomma integrum</u>
	Off ?		Off ?
	Dambulla Ceylon		Either Dambulla (07.21 N, 80.22 E) or (07.51 N, 80.39 E), Sri Lanka
	1899		1899
	W. Horn coll.		W. Horn coll.
	D.E.M. No. 46.		A pinned specimen.
N	2935	N	2935 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s, N's		
	Dog (suffering from piroplasmosis)		
	Station Veterinary Hospital, Mhow, Central India		
	27.VI.1914		
	Rec'd. from Major T. W. Rudd, A.V.C. 20.VII.1914.		
N	2936, a	N	2936
		RML	111797
	(2936) <u>Argas reflexus</u> (22 spec's.) (a) <u>Argas persicus</u> (2)		(2936) 4 ♂, 7 ♀, 12 N <u>Argas reflexus</u> (a) MISSING
	Fowls (suffering from spirochaetosis)		Fowls
	Budapest, Hungary		Budapest (47.30 N, 19.05 E), Hungary
	VI.1914		VI.1914
	Rec'd. from Prof. Dr. von Ratz, 20.VII.1914.		Rec'd. from Prof. Dr. von Ratz, 20.VII.1914.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2937

Dermacentor variabilis eggs

Winnipeg, Canada

Received 21.VII.1914 alive

J.R.N. Harrison

Some preserved, rest to be raised
[J.R.N.H. det.][Thrown away, they shrivelled up &
did not hatch out. G.H.F.N.
8.IX.1914]Collection of type specimens received from W. F. Cooper & L. E. Robinson,
Watford (per L. E. Robinson, Esq.), 23 July, 1914:-

N 2938

Amblyomma caelaturum C.& R., II.1908
(=A. malayanum)Tortoise (Geoemyda spinosa)

Kuala Aring, Java, Malay Peninsula

1899

F. F. Laidlaw
(Skeat Expedition)Cooper's No. 259
L.E.R. det. 1926.

N 2937

RML 111798

1 vial of eggs Dermacentor variabilis

Winnipeg (49.53 N, 97.10 W), Canada

Received 21.VII.1914

J.R.N. Harrison

In a jar containing vials of eggs
of various species.

N 2938

RML 111799

2 ♂, 1 ♀ Amblyomma geoemydae
Lectotype and paralectotypes of
A. caelaturumHeosemys spinosaKuala Aring, Malaysia (locality
not verified)

1899

Dr. N. Annandale

Cooper & Robinson (1908: 460)
original description of A.
caelaturum; Robinson (1926: 230)
corrected locality and collector
information. Lectotype designated:
Keirans & Brewster (1981: 155).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2939	N	2939
		RML	111800
<u>Amblyomma fiebrigi</u> (= <u>A. pacae</u> Aragao 1911)		1 ♂, 1 ♀ <u>Amblyomma pacae</u> Lectotype and paralectotype of <u>A. fiebrigi</u>	
Off ?		Off ?	
San Bernardino, Paraguay, S. America		San Bernardino (25.16 S, 57.19 W), Paraguay	
1911		1911	
Dr. Karl Fiebrig		Dr. Karl Fiebrig	
Cooper's No. 6.		Robinson (1912: 482) original description of <u>A. fiebrigi</u> : Cited: Robinson (1926: 211). Lectotype designated: Keirans & Brewster (1981: 156).	
N	2940	N	2940
		RML	111834
<u>Amblyomma longirostrum</u> C. & R., II. 1908 (= <u>A. humerale</u> Koch, 1844)		1 ♀ <u>Amblyomma humerale</u> Holotype of <u>A. longirostrum</u>	
Off ?		Off ?	
British Guiana, S. America		Guyana	
1907		1907	
E. C. Foote, coll.		E. C. Foote	
Cooper's No. 265.		Cooper & Robinson (1908: 457) original description of <u>A. longirostrum</u> ; cited: Robinson (1926: 181).	
L. E. Robinson det. 1926.			

ORIGINAL DETERMINATIONCURRENT STATUS

N 2941

N 2941

RML 111835

Amblyomma variegatum var. nocens
 Robinson I. 1912 1 ♂
 (= pomposum Dohitz, 1909)

1 ♂ Amblyomma pomposum
 Lectotype of A. variegatum nocens

Off ?

Off ?

Rhodesia, S. Africa

Zimbabwe

1911

1911

E. M. Jarvis

E. M. Jarvis

Cooper's No. 371.
 L.E.R. det. 1926.

Robinson (1912: 480) original
 description of A. variegatum nocens:
 Robinson (1926: 100) stated collect-
 ion was "? off cattle"; Hoogstraal
 (1956a: 243) discussed the question-
 able locality record of "Southern
 Rhodesia" for this collection.
 Lectotype designated: Keirans &
 Brewster (1981: 157).

N 2942

N 2942

RML 111836

Aponomma simplex C. & R., II. 1908 1 ♂

1 ♂ Aponomma fimbriatum
 Holotype of Ap. simplex

Iguana sp.Varanus sp.

Quambone, New South Wales, Australia

Quambone (30.31 S, 147.38 E), New South Wales, Australia

1899

1899

W. F. Cooper

W. F. Cooper

Cooper's No. 275.

Cooper & Robinson (1908: 466)
 original description of Ap. simplex;
 Roberts (1953: 136) gave the spel-
 ling Quamborne for the collecting
 locality.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2943

Aponomma quadratum
C. & R., II.1908 1 ♂

Iguana sp.

Quambone, New South Wales, Australia

1899

W. F. Cooper

Cooper's No. 280.

N 2943

RML 111837

1 ♂ Aponomma varanensis
Holotype of Ap. quadratum

Varanus sp.

Quambone (30.31 S, 147.38 E), New South Wales, Australia

1899

W. F. Cooper

Cooper & Robinson (1908: 468) original description of Ap. quadratum cited: Roberts (1953: 137); Kaufman (1972: 355).

N 2944

Haemaphysalis silacea R., I.1912
2 ♀'s

Cattle

Starvation Camp, Gonubie Park,
E. London, South Africa

24.II.1911

("R.J.D.")

Cooper's No. 370.

N 2944

RML 111838

2 ♀ Haemaphysalis silacea
Lectotype and paralectotype

Cattle

Starvation Camp, Gonubie Park
(32.55 S, 27.59 E), Republic of South Africa

24.II.1911

Mr. R. J. Davys

Robinson (1912: 478) original description; Nuttall & Warburton (1915: 418) added the collector's name. Lectotype designated: Keirans & Brewster (1981: 163).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2945	N	2945
		RML	111839
	<u>Rhipicentor nuttalli</u> C.&R., 1908 1 ♂		1 ♀ <u>Rhipicentor nuttalli</u>
	Off ?		Off ?
	Sandown, Rhodesia, South Africa		Either Sandown (16.58 S, 30.57 E) or (17.33 S, 30.46 E), Zimbabwe
	1907		1907
	J. S. Looseley		J. S. Looseley
	Cooper's No. 282		Cooper & Robinson (1908: 462) original description based on 1 ♂. This ♀ is not the type specimen.
	Five tubes of ticks received from F. K. Ward, Esq. (through Mrs. Marshall Ward, Cambridge), 25.VII.1914:-		
N	2946	N	2946
		RML	111840
	<u>Ixodes gigas</u> 1 ♂		1 ♂ <u>Ixodes acutitarsus</u>
	Off "self"		<u>Homo sapiens</u>
	Salween Valley jungles (7-8,000 ft), Chamuteng, Tibet		Perhaps vicinity of Salween River (16.31 N, 97.37 E), Tibet Autonomous Republic, Peoples Republic of China (2134-2438 m).
	1914		1914
	F. K. Ward		F. K. Ward
			Cited: Nuttall (1916: 327).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2947, a

(2947) Ixodes japonensis
COTYPE ♂, 1 ♂, 1 ♀
(a) Haemaphysalis ? warburtoni 1 N

Off "self"

Kā-gur-pu forests (11,000 ft)
(Yünnan-Tibet border)

1914

Dr. F. K. Ward

Note: Consult map & note to N3019
Kā-gur-pu are mountains near
Doker-la in N.W. corner of Yünnan,
China on border of Tibet. Atun-tsi
is in N.W. Yünnan G.H.F.N.

N 2947, a

RML 22288

(2947) 1 ♂, 1 ♀ Ixodes ovatus
(a) 1 N Haemaphysalis sp.

Homo sapiens

Kā-gur-pu Mountains, Yunnan Province
(25.00 N, 102.00 E), Peoples
Republic of China (3353 m)

1914

Dr. F. K. Ward

Nuttall (1916: 305) first description
of the ♂ of I. ovatus.

2947 - 5 slides of dissections
♀ legs I & IV; ♀ spiracular plate;
♂ spiracular plate; ♂ legs I & IV;
♂ hypostome.

N 2948

Ixodes japonensis 1 ♂, 4 ♀

Off "self"

Doker-la (13,000 ft.), (Mts. Yünnan-
Tibet border)

1914

F. K. Ward

N 2948

RML 111841

4 ♀ Ixodes ovatus

Homo sapiens

Doker-la Mountains Yunnan Province
(25.00 N, 102.00 E), Peoples
Republic of China (3962 m)

1914

F. K. Ward

Cited & figured: Nuttall (1916: 305);
Hoogstraal (1970c: 81).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2949

Ixodes japonensis 5 ♀

Cow

Kā-gur-pu forests (11,000 ft.)

VI.1913

F. K. Ward

Nutt. & Warb. det.

N 2949

RML 111842

5 ♀ Ixodes ovatus

Cow

Kā-gur-pu, Yunnan Tibet border
Yunnan Province (25.00 N, 102.00 E),
Peoples Republic of China (3353 m).

VI.1913

F. K. Ward

Cited: Nuttall (1916: 306).

N 2950

Haemaphysalis sp. 1 N like 2947a

Off "self"

A-tun-tsi (13,000 ft)
(N.W. Yunnan, China)

1914

F. K. Ward

N 2950

RML 111843

1 N Haemaphysalis sp.Homo sapiensAtuntze-now Te-Chin (28.30 N,
98.52 E) Yunnan Province, Peoples
Republic of China

1914

F. K. Ward

Ticks received from C. Strickland M.B., Malaria Bureau, Bikit Nanas,
Kuala Lumpur, Federated Malay States, 27.VII.1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2951	N	2951
		RML	111844
	<u>Haemaphysalis hystrix</u> 1 ♀		1 ♀ <u>Haemaphysalis semermis</u>
	Dog		Dog
	Port Dickinson, N. Sembilan		Port Dickinson (02.31 N, 101.48 E), Negeri Sembilan, Malaysia
	II.1912		II.1912
	Rec'd. from C. Strickland		Rec'd. from C. Strickland
	Strickland No. T.60.		Cited: Nuttall & Warburton (1915: 425); Hoogstraal <u>et al</u> (1965b: 434).
N	2952	N	2952
		RML	111845
	<u>Haemaphysalis hystrix</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Haemaphysalis semermis</u>
	Dog		Dog
	Ulu Gombak, Selangor		Ulu Gombak, Selangor, Malaysia (locality not verified)
	XI.1913		XI.1913
	Rec'd. from C. Strickland		Rec'd. from C. Strickland
	Strickland's No. T 61.		Cited: Nuttall & Warburton (1916: 425).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2953

Haemaphysalis hystrix 2 ♀Ursus malayensis

Ulu Gombak, Selangor

IV.1913

Rec'd. from C. Strickland

Strickland's No. T 65b.

N 2953

RML 111846

2 ♀ Haemaphysalis semermisHelarctos malayanusUlu Gombak, Selangor, Malaysia
(locality not verified)
IV.1913

Rec'd. from C. Strickland

Cited: Nuttall & Warburton
(1915: 425); Hoogstraal et al
(1965b: 435).

N 2954

Haemaphysalis koningsbergeri 1 ♂, 1 ♀Ursus malayensis

Ulu Gombak, Selangor

IV.1913

Rec'd. from C. Strickland

Stricklands No. T 65b.

N 2954

RML 111847

1 ♂, 1 ♀ Haemaphysalis koningsbergeriHelarctos malayanusUlu Gombak, Selangor, Malaysia
(locality not verified)
IV.1913

Rec'd. from C. Strickland

Cited: Nuttall & Warburton
(1915: 475).

Ticks presented by the Museo Civico di Storia Naturale di Genova (per Professor Gestro), Genova, Italy 29 July, 1914:-

ORIGINAL DETERMINATIONCURRENT STATUS

N 2955

N 2955

RML 111848

Amblyomma sublaeve
1 nymph (deformed!)

1 N Amblyomma sp.Manis javanicaManis javanica

Karkecet, Burma

Karkecet, Burma (locality not verified)

L. Fea

L. Fea

A type of Rhipicephalus javanensis
Supino (see Nn II.416)

Supino (1897: 233) original
description of R. javanensis.
Cited: Neumann (1897: 416)
Nuttall (1914a: 256) figured
this specimen.

Genoa Mus. No. given me 28a.

NOTE: These specimens are of particular interest as they are pickings from those collected by L. Fea on his journey in Burma. They were contained in 2 bottles labelled I "Tipi di Canestrini St. Supino" & II Aecki di Birmaniae (Viaggio Fea)". See F. Supino "Nuovi Ixodes della Birmania," Padova; also G. Canestrini, Ann Museo Civico Genova XXXVII, p. 417-422. I gave the Genova Museum many good specimens in exchange. The original labels give scarcely more data than the names. I have added particulars from Neumann II (1897) pp. 416-418 etc. The collection was sent to me by Prof. Gestro after my visit to Genoa.

G.H.F.N.

Names of places where Fea collected are given in Gestro 1904 pp. 6-8
Leonardo Fea ed i suoi Viaggi Genova: biographia R. Istituto Sordomuti.
He reached Bhamo Burma, VI.1885 and collected there for 11 months, then the northernmost point reached by the Yrrawaddy Flotilla. He explored the Catcin Mts., etc. Spent 1 year in Carin Mts. & returned to Genoa 1889.
N.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2956

N 2956

RML 111849

Haemaphysalis hystricis 1 ♂
CO-TYPE of H. hystricis Supino 1897

1 ♂ Haemaphysalis hystricis
Lectotype

Hystrix bengalensis & Ursus
torquatus

Hystrix hodgsoni & Selenarctos
thibetanus

Yado-Carin-Ascinii-Chebā and
Carin-Chebā Burma (900 m elev.)

Yado-Carin-Ascinii-Chebā and
Carin-Chebā, Burma (900,1000 m)
(locality not verified)

L. Fea

L. Fea

(Nn II.342 & Fea cited in Gestro)
Genoa Mus. No. given me. 20.

Supino (1897: 237) original
description. Cited: Nuttall &
Warburton (1915: 425); Hoogstraal
et al (1965c: 467, 476). Trapido
(1965: 159) designated the lectotype.

N 2957

N 2957

RML 111850

Haemaphysalis hystricis 1 ♀
Supino CO-TYPE

1 ♀ Haemaphysalis hystricis
Paralectotype

Hystrix bengalensis & Ursus
torquatus

Hystrix hodgsoni & Selenarctos
tibetanus

Yado-Carin-Ascinii-Chebā and
Carin-Chebā Burma (900 m elev.)

Yado-Carin-Ascinii-Chebā and
Carin-Chebā, Burma (900-1000 m)
(locality not verified)

L. Fea

L. Fea

Genoa Mus. No. given me. 21.

Supino (1897: 237) original
description. Cited: Nuttall &
Warburton (1915: 425); Hoogstraal
(1965c: 467, 476); Trapido
(1965: 159).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2958

Haemaphysalis formosensis 1 ♀

In same tube as N 2957

Burma

L. Fea

Genoa Mus. No. given me. 21a.

N 2959

Haemaphysalis leachi 1 ♀

Viverra zibetha or Felis nebulosa

Yado & Caro-Cheba, Burma
(Nn.II.357)

L. Fea

Labelled "Prosopodon gestroi"
(Supino 1897) of which it must
be a COTYPE (in same tube as
R. haemaphysaloides).

Genoa Mus. No. given me. 22.

N 2958

RML 70007

1 ♀ Haemaphysalis aborensis

In same tube as N 2957

Burma

L. Fea

Cited: Nuttall & Warburton
(1915: 402); Hoogstraal et al
(1971: 758).

N 2959

RML 111851

1 ♀ Haemaphysalis asiaticus
SYNTYPE of Opisthodon gestroi

Viverra zibetha or Neofelis nebulosa

Yado & Caro-Cheba, Burma (locality
not verified)

L. Fea

Supino (1897: 238), original
description of Opisthodon gestroi.
Cited: Neumann (1897: 357);
Nuttall & Warburton (1915: 475).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2960

N 2960

RML 111852

Haemaphysalis leachi 1♂ labelled
"Prosopodon canestrinii" (Supino,
 1897) a CO-TYPE?

1♂ Haemaphysalis sp. Syntype of
Opisthodon canestrinii

Centroccocyx intermedius
Felis bengalensis, Nicoria trijuga
 & Testudo elongata

Centropus sinensis intermedius,
Felis bengalensis, Nicoria trijuga,
 & Testudo elongata (names obviously
 unreliable).

Bhamo, Burma

Bhamo (24.16 N, 97.14 E), Burma

L. Fea

L. Fea

Genoa Mus. No. given me. 23.

Supino (1897: 237) original
 description of O. canestrinii.
 Cited: Neumann (1897: 357);
 Nuttall & Warburton (1915: 475).

N 2961

N 2961

RML 111853

Dermacentor auratus 1♂, 2♀
 Supino CO-TYPE

1♂, 2♀ Dermacentor auratus Syntypes

Ursus torquatus & Sus cristatus

Selenarctos thibetanus
Sus scrofa cristatus

Carin Cheba and Mt. Mooleyit, Burma
 (Nn II. p. 382 also Gestro p. 8)

Carin Cheba and Mt. Mooleyit,
 Burma (locality not verified)

L. Fea

L. Fea

Genoa Mus. No. given me. 26.

Supino (1897: 235) original
 description. Cited: Neumann
 (1897: 382); Arthur (1960b: 157).

♂ mounted on a slide.

The ♀'s appear to represent two
 different species and should be
 restudied.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2962

N 2962

RML 86285

Haemaphysalis birmaniae 4 ♂2 ♂ Haemaphysalis birmaniae
Lectotype & Paralectotype
1 ♂ Haemaphysalis sp. nr. chopraiCervulus muntjac & Antherura macruraMuntiacus muntjac & Antherurus macrourusCarin Gheen and Yado-Carin-Ascinii
Cheba, BurmaCarin Gheen and Yado Carin Ascinii
Cheba, Burma (locality not verified)

1887-9

1887-9

L. Fea

L. Fea

Genoa Mus. No. given me. 27.

Supino (1897: 236) original
description. Cited: Neumann
(1897: 336); Trapido (1965: 154)
selected the lectotype; Hoogstraal
et al (1965a: 115); Hoogstraal
(1970b: 1228). Hoogstraal & Dhanda
(1970: 169) described Haemaphysalis
darjeeling, one male of which was
from N 2962. This specimen could
not be located.

Note in vial "1 ♂ gone 18.X.1934".

N 2963

N 2963

RML 111854

Rhipicephalus haemaphysaloides 1 ♂
Supino CO-TYPE1 ♂ Rhipicephalus haemaphysaloides
Syntype

Off vegetation

Off vegetation

Mt. Muleyit, Meteleo also at
Thagata, Juva & N.E. of Bomo, BurmaMt. Muleyit, Meteleo also at
Thagata, Juva & N.E. of Bomo, Burma
(locality not verified)

L. Fea

L. Fea

Genoa Mus. No. given me. 30.
(labelled "Rhip. haemaphysaloides
ruber ♂").Supino (1897: 234) original
description. Cited: Neumann
(1897: 418).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2964

Ixodes globulosus 1 nymph
Supino CO-TYPE

Antherura macrura

Yado Carin Ascini Cheba, Burma
(Nn III.165)

L. Fea

(labelled "Ix. globulosus ♀")
Genoa Mus. No. given me. 31.

N 2964

RML 111855

1 N Ixodes sp.
SYNTYPE of I. globulosus

Antherurus macrourus

Yado Carin Ascini Cheba, Burma
(locality not verified)

L. Fea

Supino (1897: 232) original
description. Cited: Neumann
(1899:165).

N 2965

Rhipicephalus haemaphysaloides 1 ♀

Off vegetation

Mt. Muleyit, Meteleo also at
Thagata, Juva & N.E. of Bomo, Burma

L. Fea

Genoa Mus. No. given me. 32.
(labelled "Rhip. haemaphysaloides
ruber Supino ♀. Co-Type)

N 2965

RML 111856

1 ♀ Rhipicephalus haemaphysaloides
SYNTYPE

Off vegetation

Mt. Muleyit, Meteleo also at
Thagata, Juva & N.E. of Bomo, Burma
(locality not verified)

L. Fea

Supino (1897: 234) original
description. Cited: Neumann
(1897: 418).

Vulva removed and mounted on a slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2966

Ixodes granulatus 4 ♀ CO-TYPESSciurus gordonii, S. rufigenis,
S. striatus, Felis tigrisBhamo, Mooleyis, Tarrawaddy,
Terinzo in Upper & Lower Burma
(Nn. III.165)

L. Fea

Genoa Mus. No. given me. 37.
[Ix. granulatus is a good species
closely allied to Ix. angustus.
G.H.F.M.]

N 2967

Amblyomma testudinisTestudo elongata, Nicoria trijuga
& Varanus bengalensis

Bhamo, Burma (Nn III.200)

L. Fea

Genoa Mus. No. given me. 38.
("Ixodes testudinis Supino")
Redetermined as Amblyomma supinoi
by L. E. Robinson, 1926.

N 2966

RML 111857

4 ♀ Ixodes granulatus SYNTYPESCallosciurus erythraeus gordonii,
Dremomys rufigenis, Tamias sibiricus
striatus, Panthera tigrisBhamo (24.16 N, 97.14 E), Burma
(other localities not verified)

L. Fea

Supino (1897: 232), original
description. Cited: Neumann (1899:
164); figured: Nuttall (1916: 316);
Arthur (1957b: 684).

N 2967

RML 111858

2 ♀ Amblyomma supinoi
SYNTYPES of Ixodes testudinisTestudo elongata, Nicoria trijuga
& Varanus bengalensis (names not
verified)

Bhamo (24.16 N, 97.14 E), Burma

L. Fea

Supino (1897:230), original
description. Cited: Neumann
(1899: 199) as Aponomma testudinis.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2968

Aponomma gervaisi var. lucasi 2 ♂
 ("Ixodes varanensis Supino" CO-TYPE)

Varanus salvator

Mt. Catcin, Burma (Nn.II.185)

L. Fea

Genoa Mus. No. given me. 39.

N 2968

RML 111859

2 ♂ Aponomma varanensis SYNTYPES
 of Ixodes varanensis

Varanus salvator

Mt. Catcin, Burma (locality
 not verified)

L. Fea

Supino (1897: 231), original
 description. Cited: Neumann
 (1897: 185); Kaufman (1972: 336).

N 2969

Amblyomma sublaeve 2 ♂ ("Dermacentor
indicus ♂") CO-TYPE

Off ?

Kokarit, Tenasserim, British Burma

L. Fea

Genoa Mus. No. given me. 40.

Determined as Amblyomma sublaeve
 by L. E. Robinson, 1926.

N 2969

RML 111860

2 ♂ Amblyomma javanense SYNTYPES
 of Dermacentor indicus

Off ?

Kokarit (spelled Kokarcet in Supino
 (1897: 236), Tenasserim Island
 (12.35 N, 97.52 E), Burma

L. Fea

Supino (1897: 236), original
 description. Cited: Neumann
 (1897: 382).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2970

N 2970

RML 111861

Haemaphysalis birmaniae 1 ♂
1 of 4 TYPES1 ♂ Haemaphysalis birmaniae
ParalectotypeCervulus muntjac & Antheura macruraMuntiacus muntjac & Antherurus
macrourusCarin Gheen and Yado-Carin-Ascinii
Cheba, BurmaCarin Gheen and Yado Carin Ascinii
Cheba, Burma (locality not verified)

1887-9

1887-9

L. Fea

L. Fea

Genoa Mus. No. given me. 44.

Supino (1897: 236) original
description. Cited: Neumann
(1897: 336); Trapido (1965: 154)
selected the paralectotype;
Hoogstraal et al (1965a: 115).[Not H. semermis Nn., as stated by
Neumann, but a good species, distinct
also from H. hystrix].

N 2971

N 2971

RML 111862

Rhipicephalus haemaphysaloides 1 ♂
CO-TYPE1 ♂ Rhipicephalus haemaphysaloides
SYNTYPE

Off vegetation

Off vegetation

Mt. Muleyit, Meteleo also at Thagata
Juva & N.E. of Bomo, BurmaMt. Muleyit, Meteleo also at Thagata
Juva & N.E. of Bomo, Burma (locality
not verified)

L. Fea

L. Fea

Genoa Mus. No. given me. 46.

Supino (1897: 234), original
description. Cited: Neumann
(1897: 418).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2972

Amblyomma petersi 1 ♂, 1 ♀

Off ?

Uganda, E. Africa

1909

Dr. H. Bayon

Genoa Mus. No. given me. 53.

N 2973

Dermacentor rhinocerotis 2 ♂

Off ?

Uganda, E. Africa

1909

Dr. H. Bayon

Genoa Mus. No. given me. A.

(Picked ex. ca. 40♂)

N 2972

RML 111863

1 ♂, 1 ♀ Amblyomma rhinocerotis

Off ?

Uganda

1909

Dr. H. Bayon

N 2973

RML 111864

2 ♂ Dermacentor rhinocerinus

Off ?

Uganda

1909

Dr. H. Bayon

ORIGINAL DETERMINATIONCURRENT STATUS

N 2974

N 2974

RML 111865

Dermacentor rhinocerotis 2 ♂, 2 ♀2 ♂, 2 ♀ Dermacentor rhinocerus

Off ?

Off ?

Nimula, Uganda, E. Africa

Nimula, Uganda (locality not verified)

VI.1910

VI.1910

Dr. H. Bayon

Dr. H. Bayon

Genoa Mus. No. given me. B

(picked ex hundreds in lot)

Ticks presented by the Deutsches Entomologisches Museum (per Professor Dr. S. Schenkling), Berlin-Dahlem, Germany, 31 July, 1914:-

N 2975

N 2975

RML 111866

Hyalomma aegyptium 2 ♀2 ♀ Hyalomma dromedarii

Off ?

Off ?

Kasawaserei, N.W. Persia

Kasawaserei, Iran (locality not verified)

No date

No date

Dr. Blau

Dr. Blau

D.E.M. No. 1

Nuttall apparently entered this collection in his catalogue twice: see N 2904.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2976

Haemaphysalis bispinosa ♀'s

Dog

Tsingtau, China

No date

Professor Hoffmann

D.E.M. No. 3.

N 2976

RML 111867

3 ♀ Haemaphysalis longicornis

Dog

Ching-Tao (36.04 N, 120.19 E),
Shantung, Peoples Republic of China

Professor Hoffmann

Nuttall apparently entered this
collection in his catalogue twice;
See 2905.Nuttall & Warburton (1915: 433)
gave the collection date of
7.VIII.1914 but this is incorrect
because the ticks were presented
to Nuttall on 31.VII.1914.
Cited: Hoogstraal et al. (1968:
1204).

N 2977

Haemaphysalis hystrix 2 ♀

Hedgehog

Tsingtau, China

No date

Professor Hoffmann

D.E.M. No. 13.

N 2977

RML 111868

2 ♀ Haemaphysalis longicornisErinaceus europaeusChing-Tao (36.04 N, 120.19 E),
Shantung, Peoples Republic of China

No date

Professor Hoffmann

Nuttall apparently entered this
collection in his catalogue twice;
see 2905z.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2978	N	2978
	<u>Dermacentor niveus</u> 2 ♂'s	RML	111869
	Hedgehog		2 ♂ <u>Dermacentor asper</u> SYNTYPES
	Tsingtau, China		<u>Erinaceus europaeus</u>
	No date		Ching-Tao (36.04 N, 120.19 E), Shantung, Peoples Republic of China
	Professor Hoffmann		No date
	D.E.M. No. 13a.		Professor Hoffmann
	Reexamined 14.VII.1921, <u>not</u> "modestus." We regard it as an atypical variant of <u>D. niveus</u> Nn.		Arthur (1960b:114) original description. Nuttall apparently entered this collection in his catalogue twice; see 2905z, a.
N	2979	N	2979
	<u>Ixodes caledonicus</u> 1 ♀	RML	111870
	Off ?		1 ♀ <u>Ixodes</u> sp.
	Bosnia, Austria-Hungary		Off ?
	No date		Bosnia (44.00 N, 18.00 E), Yugoslavia
	Roeschke coll.		No date
	D.E.M. No. 48.		Roeschke coll.
			Cited: Nuttall (1916: 325).
N	2980	N	2980
	<u>Rhipicephalus sanguineus</u> N's (gorged)	RML	111871
	Dog (Fox-terrier puppy)		23 N <u>Rhipicephalus sanguineus</u>
	Mhow, Central Provinces, India		Dog
	VII.1914		Mhow (22.33 N, 75.46 E), India
	Major T. W. Rudd, A.V.C. Rec'd. 4.VIII.1914.		VII.1914
			Major T.W. Rudd, A.V.C.

Ticks retained from specimens sent for determination by the Indian Museum (per Dr. Annandale), Calcutta, India, 27 July, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2981	N	2981
		RML	111872
	<u>Aponomma gervaisi</u> 3 ♀'s		3 ♀ <u>Aponomma gervaisi</u>
	Bengal Monitor (<u>Varanus bengalensis</u>)		<u>Varanus bengalensis</u>
	Zoological Gardens, Calcutta		Zoological Gardens, Calcutta (22.32 N, 88.22 E), India
	26.I.1914		26.I.1914
	Rec'd. from Dr. N. Annandale		Rec'd. from Dr. N. Annandale
	Indian Mus. No. $\frac{2144}{17}$.		
N	2982	N	2982
		RML	111873
	<u>Amblyomma sublaeve</u> 1 ♂		1 ♂ <u>Amblyomma javanense</u>
	<u>Manis pentadactyla</u>		<u>Manis pentadactyla</u>
	Zoological Gardens, Calcutta		Zoological Gardens, Calcutta (22.32 N, 88.22 E), India
	1.III.1914		1.III.1914
	Rec'd. from Dr. N. Annandale		Rec'd. from Dr. N. Annandale
	Indian Mus. No. $\frac{2145}{17}$		
	L.E.R. det. 1926.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2983

N 2983

RML 111874

Aponomma gervaisi ♂'s, ♀'s1 ♂, 1 ♀ Aponomma gervaisiVaranus bengalensisVaranus bengalensisNiroddumunai, Trincomali District,
CeylonNiroddumunai (08.31 N, 31.11 E),
Eastern Province, Sri Lanka

II.1914

II.1914

Rec'd. from Dr. N. Annandale

Rec'd. from Dr. N. Annandale

Indian Mus. No. $\frac{CM}{1}$

Slide missing

[2 ♂, 2 ♀ mounted in cells with
other Aponomma sp.]1 ♂, 1 ♀ to Dr. E. Pavlovsky,
Leningrad 9.XI.1925.

Ticks retained from the collection sent for determination by Dr. Georgina Sweet, The Veterinary School, University of Melbourne, Parkville, Melbourne, Victoria, Australia, 18 February, 1914:-

ORIGINAL DETERMINATIONCURRENT STATUS

N 2984

N 2984

RML 111875

Ixodes ornithorhynchi 2 ♀, 4 N
O-TYPE

2 ♀, 4 N Ixodes ornithorhynchi

Platypus sp.

Ornithorhynchus anatinus

Australia

Australia

17.IV.1910

17.IV.1910

Rec'd. from Dr. Georgina Sweet

Cited: Nuttall (1916: 329).

Sweet No. 257

Compared with (a) Lucas' type I. ornithorhynchi Lucas ♀ in the Paris Museum, 31.VII.1914, and found it identical in all respects (The Paris label reads "Ixodes ornithorhynchi ♀, Type Patria ignota," also with (b) a specimen labelled "Ix. ornithorhynchi Lucas ♀, Iles Mariannes, A. Marshe 59.-1888. L. G. Neumann det. 1904." Both (a) & (b) were loaned me by the Paris Museum & were returned by me on 31.VII.1914.

G.H.F.N.

N 2985

N 2985

RML 111876

Aponomma trimaculatum 2 N's

2 N Aponomma trimaculatum

Goanna

Varanus sp.

Lochinvar, Queensland, Australia

Lochinvar, Queensland, Australia (locality not verified). There is a Lochinvar (32.42 S, 151.29E) in New South Wales.

Sent 18.II.1914

Sent 18.II.1914

Rec'd. from Dr. Georgina Sweet

Rec'd. from Dr. Georgina Sweet

Sweet No. 334.

Tentative ID.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2986	N	2986
		RML	111876
	<u>Aponomma trimaculatum</u> 2 ♂, 2 ♀		3 ♀ <u>Aponomma trimaculatum</u>
	Goanna		<u>Varanus</u> sp.
	Lochinvar, Queensland, Australia		Lochinvar, Queensland, Australia (locality not verified). There is a Lochinvar (32.42 S, 151.29 E) in New South Wales.
	Sent 18.II.1914		Sent 18.II.1914
	Rec'd. from Dr. Georgina Sweet		Rec'd. from Dr. Georgina Sweet
	Sweet No. 334.		Note in vial "1 ♀ missing 2.III.33 G.H.F.N."
N	2987	N	2987
		RML	111877
	<u>Aponomma trimaculatum</u> 3 N		3 N <u>Aponomma trimaculatum</u>
	Brown water snake		Brown water snake
	Lochinvar Station, Queensland, Australia		Lochinvar Station, Queensland, Australia (locality not verified). There is a Lochinvar (32.42 S, 151.29E) in New South Wales.
	Sent 18.II.1914		Sent 18.II.1914
	Rec'd. from Dr. Georgina Sweet		Rec'd. from Dr. Georgina Sweet
	Sweet No. 338		Tentative ID.
N	2988	N	2988
		RML	111878
	<u>Aponomma trimaculatum</u> ♂'s		6 ♂ <u>Aponomma trimaculatum</u>
	On piece of skin, off goanna		On piece of skin, off <u>Varanus</u> sp.
	Adelaide River, Northern Territory S. Australia?		Adelaide River (31.15 S, 131.06 E), Northern Territory, Australia
	Sent 18.II.1914		Sent 18.II.1914
	Rec'd. from Dr. Georgina Sweet		Rec'd. from Dr. Georgina Sweet
	Sweet No. 460.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2989

Aponomma trimaculatum 2 ♂

Snake (poisonous, 10 ft. long)

Sent 18.II.1914

Rec'd. from Dr. Georgina Sweet

Sweet No. 556.

N 2990

Aponomma trimaculatum 2 ♂

Goanna

Victoria, W. Australia

Sent 18.II.1914

Rec'd. from Dr. Georgina Sweet

Sweet No. 1 a. (with N2991).

N 2991

Aponomma decorosum 3 ♂

Goanna

Victoria, W. Australia

Sent 18.II.1914

Rec'd. from Dr. Georgina Sweet

Sweet No. 1. (with N. 2990).

N 2989

RML 111879

2 ♂ Aponomma trimaculatum

Snake

Australia

Sent 18.II.1914

Rec'd. from Dr. Georgina Sweet

N 2990

RML 111880

2 ♂ Aponomma trimaculatum

Varanus sp.

Victoria, Australia

Sent 18.II.1914

Rec'd. from Dr. Georgina Sweet

N 2991

RML 111880

3 ♂ Aponomma decorosum

Varanus sp.

Victoria, Australia

Sent 18.II.1914

Rec'd. from Dr. Georgina Sweet

ORIGINAL DETERMINATIONCURRENT STATUS

N 2992

N 2992

RML 111881

Aponomma decorosum 4 ♂, 1 ♀, N's & L4 ♂, 1 ♀, 11 N, 2 L Aponomma decorosum

On piece of skin of goanna

Attached to 3 pieces of skin of
Varanus sp.

Gunnedah, New South Wales

Gunnedah (30.59 S, 150.15 E),
New South Wales, Australia

XII.1912

XII.1912

Rec'd. from Dr. Georgina Sweet

Sweet No. 2.

Ticks received 17.VIII.1914 from Prof. W. B. Herms, Dept. of Entomology, Berkeley, University of California who has had them raised by Mr. Chandler (see his letter or entry in Ticks I ms) extracted:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2993	N	2993
		RML	111882
<u>Ornithodoros coriaceus</u> eggs & larvae		9 L <u>Ornithodoros coriaceus</u>	
Raised in Berkeley, California		Raised in Berkeley (37.57 N, 122.18 W), California, U.S.A.	
Laid & hatched 4-7.VII.1914		Laid & hatched 4-7.VII.1914	
Rec'd. from Prof. W. B. Herms		Rec'd. from Prof. W. B. Herms	
Extract of Herms' letter of 20.VII.1914. These ticks feed readily on ears of rabbits. Larvae stayed on 5-6 days, nymphs 15-20 minutes. Eggs laid 4.VII.14 had mostly hatched on arrival 17.VIII in Cambridge. The other larvae (all put together in N 2993) hatched out on 7.VII.14. The two N's 2994 (i) fed 19.V.14 as larvae, moulted 6.VI.14 as 1st stage nymphs and <u>without feeding</u> moulted again 26.VI.14 N2994 (ii) are skins of 1st stage N's.			
N	2994	N	2994
		RML	111883
<u>Ornithodoros coriaceus</u> The 2nd stage N's & first stage N's skins		2 N <u>Ornithodoros coriaceus</u>	
		Fed as larvae on ears of rabbit	
Raised in Berkeley, California		Raised in Berkeley (37.57 N, 122.18 W), California, U.S.A.	
Rec'd. 17.VIII.1914		Rec'd. 17.VIII.1914	
Rec'd. from W. B. Herms		Rec'd. from Dr. W. B. Herms.	

Ticks from Zoologisches Museum, Berlin, received for determination in 1914. Picked out duplicates as follows:-

ORIGINAL DETERMINATION

CURRENT STATUS

N 2995

N 2995

RML 111884

Amblyomma concolor 1 ♀

1 ♀ Amblyomma auricularium

No data other than "ekt. 6255"

No data other than "ekt. 6255"

South America

Berlin No. 240
(L. E. R. det.)

N 2996

N 2996

RML 111885

Haemaphysalis calcarata var.
houyi 3 ♂, 1 ♀, 1 N COTYPES

3 ♂, 1 ♀, 1 N Haemaphysalis houyi
Lectotype and Paralectotypes

Off ?

Off ?

Bate, New Cameroon; Africa

Bade (06.41 N, 17.07 E), Central
African Republic

Dr. Houy coll.

Dr. Houy coll.

Berlin Mus. No. 279.
(leaving 4 ♂, 1 N to return to
Berlin)

[Moritz & Fischer (1981: 351)
cited these 4 ♂, 1 N but gave
the number 279 as a Nuttall
number rather than a Berlin
Museum number.-J.E.K.]

Nuttall & Warburton (1915: 444),
original description.
Hoogstraal (1954a: 307) raised the
taxon to specific rank; Hoogstraal
(1955a: 373) gave coordinates similar
to those above. Lectotype designated:
Keirans & Brewster (1981: 159).

♀ vulva removed and mounted on a slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2997

N 2997 MISSING

Ixodes ricinus N's, L'sOn a lizard Lacerta muralisSchorfheide, Berlin, Joachimstal,
Germany

8.VI.1888

Möbius coll.

(two lizards rec'd., the more
heavily infested specimen returned;
lizard det'd. by Dr. Gadow here
in Cambridge.)

Berlin Mus. No. 352.

N 2998

N 2998 MISSING

Rhipicephalus sanguineus 1 ♂, 1 ♀

Off ?

Central Mesopotamia

21.III.1913

Dr. Kohl Coll. "1155/1913"

Expedition of Baron von Oppenheim

Berlin Mus. No. 289.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2999

N 2999

RML 111886

Rhipicephalus pulchellus 4 ♂, 4 ♀4 ♂, 4 ♀ Rhipicephalus pulchellus

Mule

Mule

Kiomoni, near Tanga

Kiomoni (05.04 S, 39.03 E),
Tanga Region, Tanzania

10.II.1909

10.II.1909

(Mule had just arrived from Hodeida
in Arabia), rec'd. from Biol. Agric.
Inst., Amani "644/1909."

Berlin Mus. No. 302.

N 3000

N 3000

RML 111887

Amblyomma variegatum 1 ♀1 ♂ Amblyomma variegatum

Off ?

Off ?

Thies, Senegal, Africa

Thies (14.48 N, 16.56 W), Thies
Region, Senegal

1-10.VII.1908

1-10.VII.1908

F. W. Riegenbach coll.
"1393/1908"

Berlin Mus. No. 308.

Both catalogue and vial label state
that this specimen is a ♀. It is
a ♂.

ORIGINAL DETERMINATION

N 3001

Amblyomma eburneum 5 ♂, 3 ♀

Off ?

Amani, G. E. Africa

Sent by Kaiserl. Biol. Inst.,
Amani "1058/1912"Berlin Mus. No. 312.
(15 ♂ & 5 ♀ returned).

N 3002

Aponomma exornatum 2 ♂Varanus sp. (inside nostrils)

Chifumbuzi, Portuguese E. Africa

10.X.1905

W. Tiester coll 1092/1905

Berlin Mus. No. 317.

CURRENT STATUS

N 3001

RML 111888

2 ♂, 2 ♀ Amblyomma eburneum
3 ♂, 1 ♀ Amblyomma gemma

Off ?

Amani (05.06 S, 38.38 E), Tanzania

1912

Sent by Kaiserl. Biol. Inst.,
Amani "1058/1912"The A. eburneum collection
cited by Robinson (1926: 119).

N 3002

RML 111889

2 ♂ Aponomma exornatumVaranus sp. (inside nostrils)Possibly Mt. Chifumbazi
(14.20 S, 32.55 E), Mozambique

10.X.1905

W. Tiester coll 1092/1905

ORIGINAL DETERMINATIONCURRENT STATUS

N 3003

Amblyomma splendidum ♂'s, ♀'s

Buffalo

Between Gaza & Baturi
New-Cameroon

No date

Lieut. Naumann coll. "383/1914"

(Picked out of a lot of 49)
Berlin Mus. No. 320.

N 3003

RML 111890

10 ♂, 2 ♀ Amblyomma splendidumSyncerus cafferProbably between Gazi (06.21 N,
14.20 E) and Batouri (07.01 N,
14.53 E), Cameroon

Probably 1914

Lieut. Naumann coll. "383/1914"

N 3004

Dermacentor circumguttatus 2 ♂

Off ?

Hinterland Alen, Spanish Guinea

VII.1906-I.1907

Fessmann coll.

Berlin Mus. No. 321a.
(Had been correctly det'd. by Dönitz,
witness his original label in Berlin
tube returned with 2 ♂).

N 3004

RML 111891

2 ♂ Dermacentor circumguttatus

Off ?

Alen, Equatorial Guinea (locality
not verified; 15 possible localities)

VII.1906-I.1907

Fessmann coll.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3005

Ixodes rarus 1 ♀

Wild pig

Cameroon

Dr. Schäfer coll. "416/1914"

Berlin Mus. No. 325
 (Dönitz's det. correct,
 sent back a 2nd ♀).

N 3005

RML 111892

1 ♀ Ixodes rarusSus scrofa

Cameroon

Probably 1914

Dr. Schäfer coll. "416/1914"

Cited: Nuttall (1916: 331).

N 3006

Rhipicephalus longicoxatus 2 ♂
 (N.B. ILL characterized)

Hippotragus equinus

German E. Africa

Dr. Schellhase coll. "1186/1912"

Berlin Mus. No. 328
 (5 ♂ returned)

Determination revised 11.XI.1935
 after C. W.'s exam. G.H.F.N.

N 3006

RML 111893

1 ♂ Rhipicephalus muelhensiHippotragus equinus

Tanzania

Probably 1912

Dr. Schellhase coll. "1186/1912"

Cited: Hoogstraal (1954b: 278).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3007	N	3007
		RML	111894
	<u>Ixodes</u> sp. (? <u>brunneus</u> 1 N)		1 N <u>Ixodes</u> sp.
	Birds (No. 3, 1989, 1994, 2004, I.352)		Birds
	German New Guinea		Papua New Guinea
			Probably 1913
	Dr. Bürger's coll. "880/1913"		Dr. Bürger's coll. "880/1913"
	Berlin Mus. No. 344. (2 N returned).		
N	3008	N	3008
		RML	111895
	<u>Haemaphysalis cinnabarina</u> , 1 N		1 N <u>Haemaphysalis</u> sp.
	<u>Turdus viscivorus</u>		<u>Turdus viscivorus</u>
	Gouv. Poltava, Russia		Poltava (49.35 N, 34.34 E), Ukrainian S.S.R., U.S.S.R.
	20.IV.1907		20.IV.1907
	Berlin Mus. No. 353. (No further data, 1 N returned).		
N	3009	N	3009 MISSING
	<u>Ixodes ricinus</u> N		
	<u>Turdus merula</u>		
	Rumowschina Gouv. Poltava, Russia		
	15.IV.1907		
	Berlin Mus. No. 356 (No further particulars, many returned).		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3010

Ixodes putus 1 N, 2 L..... fuliginosus

17.XII.1901

Berlin Mus. No. 364.

Deutsche Südpolar

Exped. 1901-1903.

(Returned the rest: 1 ♀, 2 N, 5 L;
had been correctly det'd. by
P. Speiser).

N 3010

RML 111896

1 N, 2 L Ixodes uriaePossibly Phoebetria fusca (= P. fuliginosa) which ranges between 50° and 30° S. lat. in the southern Atlantic & Indian Oceans.

17.XII.1901

N 3011

Haemaphysalis spinigera var.
novae-guineae 4 ♂, 4 ♀, 4 NPerameles dorevanus

Astrolabe Bay, German New Guinea

Kaufmann "8346"

Berlin Mus. No. 185.

N 3011

RML 111897

4 ♂, 4 ♀, 4 N Haemaphysalis
novaeguineaeEchymipera kalubuAstrolabe Bay (05.20 S, 145.50 E),
Papua New Guinea

Kaufmann "8346"

Cited: Nuttall & Warburton
(1915: 452)The vial label gives the revised
host name.

N 3012

Rhipicephalus cuneatus 4 ♂, 2 ♀

Cattle

Cameroon

Berlin Mus. No. 95.
(No further data).

N 3012

RML 111898

5 ♂, 2 ♀ Rhipicephalus ziemanni

Cattle

Cameroon

<u>ORIGINAL DETERMINATION</u>	<u>CURRENT STATUS</u>
N 3013	N 3013
	RML 111899
<u>Hyalomma aegyptium</u> 2 ♂, 2 ♀	1 ♂, 1 ♀ <u>Hyalomma anatolicum</u> <u>anatolicum</u>
Wild boar ("No. 547")	<u>Sus scrofa</u>
Tall Halaf, Central Mesopotamia	Tall Halaf (36.49 N, 40.01 E), Al Hasakah, Syria
6.VIII.1913	6.VIII.1913
Dr. Kohl coll. "1155/1913" Exped. of Baron von Oppenheim	Dr. Kohl coll. "1155/1913" Exped. of Baron von Oppenheim
Berlin Mus. No. 285. (4 ♂, ♀ returned).	
Ticks from the Imperial Bureau of Entomology. Rec'd. 13.VI.1913.	
N 3014	N 3014
	RML 111900
<u>Amblyomma cohaerens</u>	36 ♂, 10 ♀, 1 N <u>Amblyomma cohaerens</u>
Buffalo	<u>Syncerus caffer</u>
Shot near Villa Maria, Buddu, Uganda	Villa Maria (00.14 S, 31.44 E), District of Buganda, Uganda
25.XII.1913	25.XII.1913
F. A. Knowles	F. A. Knowles
Bureau No. 693. (Picked from about 300 spec's. for variation).	Cited: Robinson (1926: 110). ♂ specimens in separate vial.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3015

N 3015

RML 111901

Amblyomma cohaerens23 ♂, 44 ♀, 1 N Amblyomma cohaerens

Buffalo

Syncerus caffer

Shot at Mpenja, Gomba, Uganda

Either Mpenja (00.10 N, 32.41 E),
or (00.14 N, 32.03 E), District
of Buganda, Uganda

19.XII.1912

19.XII.1912

F. A. Knowles

F. A. Knowles

Bureau No. 694.

♂ specimens in separate vial.

(picked for variation out of
ca. 360).(2 ♂, 2 ♀ mounted in cells on
slides II.1915).

N 3016, a

N 3016, a

RML 111902

(3016) Amblyomma gemma 1 ♂, 1 ♀
[the ♀ mounted on a slide in cell](3016) 1 ♂ Amblyomma gemma(a) Hyalomma aegyptium 1 ♂, 3 ♀(a) 1 ♂ Hyalomma dromedarii

East Africa

East Africa

Rec'd. alive on 2.IX.1913 from
H.S. Leeson (Newstead's Lab'y.,
Liverpool School of Trop. Med.)Rec'd. alive on 2.IX.1913 from
H.S. Leeson (Newstead's Lab'y.,
Liverpool School of Trop. Med.)(Presented by Prof. Newstead per H.
S. Leeson 11.IX.1914)

Newstead No. 319.

A. gemma ♂, ♀ scutums painted in
colours whilst alive by Edwin Wilson
3-4.IX.1914 on my outlines drawn
to scale.(3016) Cited & figured: Nuttall
(1920: 1, pl I, fig. 5); figure
repeated in Robinson (1926, pl I,
fig. 5).

Slide missing.

G.H.F.N.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3017

Boophilus sp. 1 N

Pachyura murina

Manila, Philippine Islands

3.XI.1910

M. B. Mitzmain (with mites)

Mitzmain No. 33.

N 3018

Ornithodoros moubata
all stages, alive

From native huts

Chitambo Station, Serenje
N. Rhodesia

Rec'd. 10.IX.1914

M. Moffat

Sent by L. E. Robinson
(Watford). Kept for raising.

N 3017

RML 111903

1 ♀ Boophilus microplus

Suncus murinus

Manila (14.35 N, 121.00 E),
Philippines

3.XI.1910

M. B. Mitzmain

N 3018

RML 111904

6 ♂, 5 ♀, 100 N Ornithodoros
moubata

From native huts

Chitambo Station, Serenje
(13.14 S, 30.14 E), Zambia

Rec'd. 10.IX.1914

M. Moffat

Ticks received 26.IX.1914 from F. Kingdon Ward B.A. (Christs), collected off himself (man) in Hpimaw District, Upper Burma, 6000-8000 ft. altitude in the jungle. 3 ticks:-

ORIGINAL DETERMINATIONCURRENT STATUS

N 3019, a, b

N 3019, a, b

RML 22283

(3019) Ixodes acutitarsus 1 ♀ unfed
 (a) Ixodes japonensis 1 ♂
 (b) Rhipicephalus haemaphysaloides
 1 ♀ unfed

(3019) 1 ♀ Ixodes acutitarsus
 (a) 1 ♂ Ixodes ovatus
 (b) 1 ♀ Rhipicephalus haemaphysaloides

Man

Homo sapiens

Hpimaw outpost, Myitkyina,
 Upper Burma

Hpimaw (26.01 N, 98.37 E), Myitkyina
 District, Kchin State, Burma

Rec'd. 26.IX.1914

Rec'd. 26.IX.1914

F. K. Ward

F. K. Ward

3019, a (G.H.F.N. det.)
 3019 b (C. Warburton det.)

(3019, a) Cited: Nuttall
 (1916: 306, 325); Hoogstraal
 (1970c: 80).

Note: This map shows places whence
 F. K. Ward sent specimens including
Mites q. v. Mrs. Ward, his mother
 writes 29.IX.14 that Hpimaw is a
 new outpost in the Myitkyina
 District 12 days journey from
 Myitkyina itself, where the railway
 from Rangoon ends (N.N.W. from
 Bhamo). See the map.

N 3020

N 3020

RML 111905

Argas persicus adults &
 1st stage N's, unfed larvae

2 ♀, 28 N, 179 L Argas persicus

Beni-Ounif, Algeria

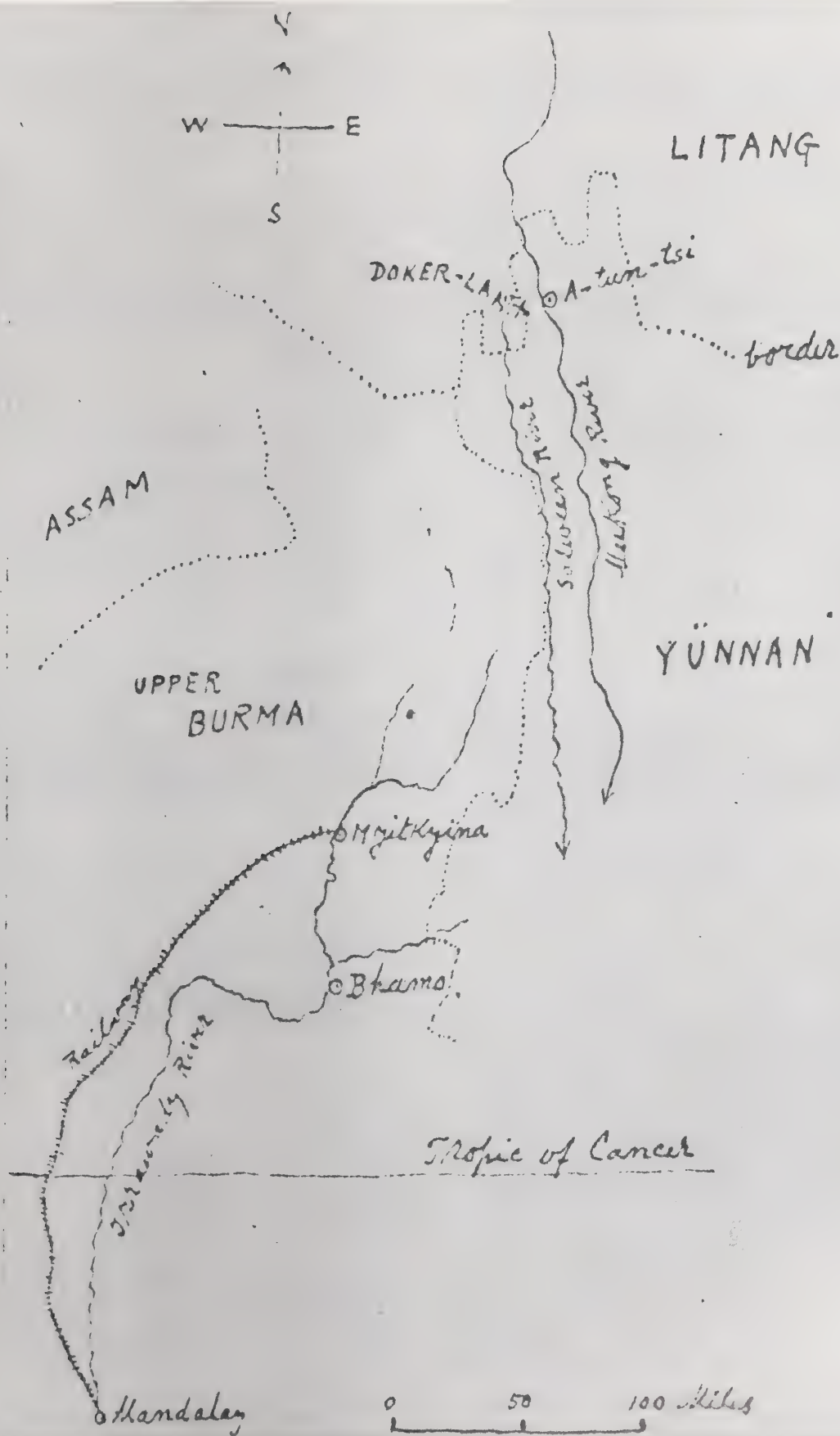
Beni Ounif (32.03 N, 01.15 W),
 Algeria

Presented 29.IX.1914

Presented 29.IX. 1914

Presented by Dr. E. Hindle.

Presented by Dr. E. Hindle.



Map 1.--Collecting locality for N 3019, a, b.

ORIGINAL DETERMINATIONCURRENT STATUS

Ticks received 2.X.1914 from H. C. Myers, Ph.D., Box 442, Spokane, Washington, U.S.A.

N 3021

Dermacentor venustus 1 ♀

Cat

Blackfoot, Idaho, U.S.A.

17.IV.1914

Rec'd from Dr. H. C. Myers
(C. Warburton det.).

N 3021

RML 111906

1 ♀ Dermacentor andersoni

Cat

Blacktail (48.07 N, 116.30 W),
Idaho, U.S.A.

17.IV.1914

Rec'd from Dr. H. C. Myers

N 3022

Dermacentor venustus 2 ♀

Dog

Blacktail, Idaho, U.S.A.

23.IV.1914

Rec'd from Dr. H. C. Myers
(C. Warburton det.).

N 3022

RML 111907

2 ♀ Dermacentor andersoni

Dog

Blacktail (48.07 N, 116.30 W),
Idaho, U.S.A.

23.IV.1914

Rec'd from Dr. H. C. Myers

ORIGINAL DETERMINATIONCURRENT STATUS

N 3023

Haemaphysalis chordeilis ♂'s, ♀'s

Calves

Ashern, Manitoba, Canada
(116 miles N.W. of Winnipeg)

17.IX.1914

Rec'd. 4.X.1914 from J.R.N. Harrison

Some of the gorged ♀'s alive & kept
for raising but died without result.

N 3023

RML 111908

2 ♂, 15 ♀ Haemaphysalis chordeilis

Calves

Ashern (51.11 N, 98.21 W),
Manitoba, Canada

17.IX.1914

Rec'd. 4.X.1914 from J.R.N. Harrison

Cited: Nuttall & Warburton
(1915: 376).

N 3024

Haemaphysalis humerosa 2 ♀, 2 NPerameles macruraStapleton, Northern Territory,
Australia

31.XI.1913

G.F. Hill

Presented by L. Harrison
26.X.1914 Harrison No. 23.

N 3024

RML 111909

2 ♀, 2 N Haemaphysalis humerosaIsodon macrourusStapleton, Northern Territory,
Australia (locality not verified)

31.XI.1913

G.F. Hill

Cited: Nuttall & Warburton
(1915: 497).

Launcelot Harrison (1880-1928)
 Challis Professor of Zoology,
 University of Sydney and President,
 Linnaean Society of New South Wales.
 He worked for a time in Professor
 Nuttall's laboratory. He
 suffered from both typhus and
 malaria and died at 48.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3025	N	3025
		RML	111910
	<u>Haemaphysalis humerosa</u> 6 ♂		6 ♂ <u>Haemaphysalis humerosa</u>
	<u>Perameles nasuta</u>		<u>Perameles nasuta</u>
	Sydney, New South Wales		Sydney (33.52 S, 151.13 E), Australia
	III.1913		III.1913
	L. Harrison, presented 26.X.1914		L. Harrison, presented 26.X.1914
	Harrison No. 13.		Cited: Nuttall & Warburton (1915: 498)
N	3026	N	3026
		RML	111911
	<u>Haemaphysalis chordeilis</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Haemaphysalis chordeilis</u>
	Cattle		Cattle
	Stonewall, Manitoba, Canada		Stonewall (50.08 N, 97.19 W), Manitoba, Canada
	14.IX.1911		14.IX.1911
	J. D. Ross		J. D. Ross
	Rec'd. from Dr. S. Hadwen, X.1914.		Cited: Nuttall & Warburton (1915: 376).
N	3027	N	3027
		RML	111912
	<u>Haemaphysalis chordeilis</u> 1 ♂		1 ♂ <u>Haemaphysalis chordeilis</u>
	Man		<u>Homo sapiens</u>
	Kamloops, British Columbia, Canada		Kamloops (50.40 N, 120.20 W), British Columbia, Canada
	IX.1914		IX.1914
	Dr. S. Hadwen		Dr. S. Hadwen
			Cited: Nuttall & Warburton (1915: 376).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3028

N 3028

RML 111913

Argas persicus2 ♀ Argas persicus

Cannibalism! specimens killed in the act by Dr. S. Hindle. Probably from the lot rec'd. from Beni-Ounif, Algeria, but not noted.

Cannibalism! specimens killed in the act by Dr. S. Hindle. Probably from the lot rec'd. from Beni-Ounif (32.03 N, 01.15 W), Algeria, but not noted.

These specimens are in a jar marked "Tick Abnormalities."

Ticks rec'd. 4.XI.1914 from L. C. Heath, Kalomo, near Livingstone, N.W. Rhodesia, who writes 5.X.1914 that they were collected on a shooting trip in the Namwala District by his friends Mssrs. Scott & Cunningham. [If they are n. sp., Heath says that they might be called after these gentlemen]. Letter destroyed:-

N 3029

N 3029

RML 111914

Amblyomma pomposum 2 ♂2 ♂ Amblyomma pomposum

Sable antelope

Hippotragus niger

Namwala District, N.W. Rhodesia

Namwala District (16.00 S, 26.15 E), Southern Province, Zambia

13.VIII.1914

13.VIII.1914

Scott & Cunningham

Scott & Cunningham

Cited: Robinson (1926: 100).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3030	N	3030
		RML	111915
	<u>Rhipicephalus evertsi</u> 1 ♂		1 ♀ <u>Rhipicephalus evertsi</u>
	Roan antelope		<u>Hippotragus equinus</u>
	Namwala District, N.W. Rhodesia		Namwala District (16.00 S, 26.15 E), Southern Province, Zambia
	7.IX.1914		7.IX.1914
	Scott & Cunningham		Scott & Cunningham
N	3031	N	3031
		RML	111916
	<u>Rhipicephalus evertsi</u> 1 ♂		1 ♂ <u>Rhipicephalus evertsi</u>
	Waterbuck		<u>Kobus ellipsiprymnus</u>
	Namwala District, N.W. Rhodesia		Namwala District (16.00 S, 26.15 E), Southern Province, Zambia
	13.IX.1914		13.IX.1914
	Scott & Cunningham		Scott & Cunningham
N	3032	N	3032
		RML	111917
	<u>Amblyomma pomposum</u> 2 ♂		2 ♂ <u>Amblyomma pomposum</u>
	Eland		<u>Taurotragus oryx</u>
	Kafur River, Namwala District, N.W. Rhodesia		Kafur River (15.56 S, 28.55 E), Namwala District, Southern Province, Zambia
	18.VIII.1914		18.VIII.1914
	Scott & Cunningham		Scott & Cunningham
			Cited: Robinson (1926: 100).

ORIGINAL DETERMINATIONCURRENT STATUS

N

3033

N

3033 MISSING

Rhipicephalus neavei

Bush pig

Namwala District, N. W. Rhodesia

10.IX.1914

Scott & Cunningham

26 tubes of ticks rec'd. 3.XI.1914 from Dr. John J. Wood, Kalalla, Koinadugu District, Sierra Leone Protectorate:-

N

3034, a-c

N

3034, a-c

RML

111918

(3034) Rhipicephalus lunulatus ♂'s
& ♀'s

(a) Amblyomma splendidum 1 ♂(b) Amblyomma variegatum ♂'s & ♀'s(c) Boophilus australis ♀'s

(3034) 22 ♂, 12 ♀ Rhipicephalus
lunulatus

(3034) 1 ♀ Rhipicephalus senegalensis(3034) 1 ♀ Amblyomma variegatum(a) 1 ♂ Amblyomma splendidum(b) 30 ♂, 8 ♀ Amblyomma variegatum(c) 12 ♀ Boophilus geigy

Cattle

Cattle

Kulakunko, Sierra Leone

Kulakunko, Sierra Leone (locality
not verified)

27.VII.1914

27.VII.1914

Rec'd. from Dr. J. J. Wood

Rec'd. from Dr. J. J. Wood

(3034a) Cited: Robinson (1926: 125).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3035, a	N	3035, a
		RML	111919
	(3035) <u>Rhipicephalus sanguineus</u> 5 ♀'s (a) <u>Haemaphysalis leachi</u> 1 ♂, 3 ♀'s		(3035) 4 ♀ <u>Rhipicephalus sanguineus</u> (a) 1 ♂, 3 ♀ <u>Haemaphysalis leachi</u>
	Dogs		Dogs
	Falaba, Sierra Leone		Falaba, Sierra Leone (locality not verified; 6 possible localities)
	16.VIII.1914		16.VIII.1914
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood
N	3036, a	N	3036, a
		RML	111920
	(3036) <u>Boophilus australis</u> ♀'s (a) <u>Rhipicephalus falcatus</u> 2 ♂'s		(3036) 3 ♀ <u>Boophilus geigy</u> (a) 2 ♂ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Gbenekoro, Sierra Leone		Binkolo (08.57 N, 11.59 W), Sierra Leone
	15.VIII.1914		15.VIII.1914
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood
N	3037, a, b	N	3037, b
		RML	111921
	(3037) <u>Rhipicephalus lunulatus</u> ♂'s, ♀'s (a) <u>Amblyomma variegatum</u> 2 ♂'s & 2 ♀'s (b) <u>Boophilus australis</u> 4 ♀'s		(3037) 6 ♂, 7 ♀ <u>Rhipicephalus lunulatus</u> (a) MISSING (b) 4 ♀ <u>Boophilus geigy</u>
	Goat		Goat
	Ninkintumania, Sierra Leone		Ninkintumania, Sierra Leone (locality not verified)
	18.VII.1914		18.VII.1914
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N 3038

Haemaphysalis leachi

Cerval

Kaballa, Sierra Leone

17.IX.1914

Rec'd. from Dr. J. J. Wood

2 ♂, 2 ♀ to Prof. E. Brumpt, Paris.

N 3038

RML 111922

37 ♂, 12 ♀ Haemaphysalis leachiFelis serval

Kabala (09.35 N, 11.33 W), Sierra Leone

17.IX.1914

Rec'd. from Dr. J. J. Wood

N 3039

Aponomma laeve ♂'s, ♀'s

Small python

Kaballa

24.IX.1914

Rec'd. from Dr. J. J. Wood

N 3039

RML 111923

11 ♂, 3 ♀ Aponomma latumPython sp.

Kabala (09.35 N, 11.33 W), Sierra Leone

24.IX.1914

Rec'd. from Dr. J. J. Wood

Note in vial "5 ♂, 1 ♀ removed 13/6/36 Bertram".

N 3040, a

(3040) Boophilus australis ♀'s
(a) Rhipicephalus falcatus 3 ♂'s, 1 ♀

Dog

Kulakunko, Sierra Leone

27.VII.1914

Rec'd. from Dr. J. J. Wood

N 3040, a

RML 111924

(3040) 21 ♀ Boophilus geigyi
(a) 3 ♂, 1 ♀ Rhipicephalus
senegalensis

Dog

Kulakunko, Sierra Leone
(locality not verified)

27.VII.1914

Rec'd. from Dr. J. J. Wood.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3041, a, b

N 3041, a, b

RML 111925

(3041) Boophilus australis ♂ & ♀'s(3041) 1 ♂, 13 ♀, 1 N Boophilus
geigy(a) Rhipicephalus sanguineus 3 ♂'s, 2 ♀(a) 3 ♂, 3 ♀ Rhipicephalus sanguineus(b) Haemaphysalis leachi 1 ♂(b) 1 ♂ Haemaphysalis leachi

Dogs

Dogs

Kinkintumania, Sierra Leone

Kinkintumania, Sierra Leone
(locality not verified)

18.VII.1914

18.VII.1914

Rec'd. from Dr. J. J. Wood

Rec'd. from Dr. J. J. Wood

N 3037 and others more often spell
the locality Ninkintumania.

N 3042

N 3042

RML 111926

Amblyomma marmoreum ♂'s4 ♂ Amblyomma nuttalli

Tortoise

Tortoise

Kaballa, Sierra Leone

Kabala (09.35 N, 11.33 W),
Sierra Leone

23.IX.1914

23.IX.1914

Rec'd. from Dr. J. J. Wood

Rec'd. from Dr. J. J. Wood

Cited: Santos Dias (1958: 513);
Theiler & Salisbury (1959: 115).

ORIGINAL DETERMINATION

N 3043, a

(3043) Rhipicephalus sanguineus
 σ 's & 1 ♀
 (a) Haemaphysalis leachi 1 ♂

Dog

Yeria, Sierra Leone

21.VII.1912

Rec'd. from Dr. J. J. Wood

N 3044, a-c

(3044) Rhipicephalus lunulatus
 σ 's & ♀'s

(a) Rhipicephalus falcatus ♂'s & ♀'s
 (b) Amblyomma variegatum ♂'s & ♀'s
 (c) Boophilus australis ♀'s, N & L

Cattle

Firiwa, Sierra Leone

23.VII.1914

Rec'd. from Dr. J. J. Wood

CURRENT STATUS

N 3043, a

RML 111927

(3043) 8 ♂, 3 ♀ Rhipicephalus sanguineus
 (a) 1 ♂ Haemaphysalis leachi

Dog

Perhaps Yaraia (08.56 N, 11.08 W),
 Sierra Leone

21.VII.1912

Rec'd. from Dr. J. J. Wood

N 3044, a-c

RML 111928

(3044) 30 ♂, 40 ♀ Rhipicephalus lunulatus
 (3044) 1 ♂, 2 ♀ Rhipicephalus senegalensis
 (a) 6 ♂, 2 ♀ Rhipicephalus senegalensis
 (b) 18 ♂, 15 ♀ Amblyomma variegatum
 (c) 40 ♀, 2 N Boophilus geigy

Cattle

Either Firawa (09.21 N, 11.18 W) or
 (09.31 N, 10.51 W), Sierra Leone

23.VII.1914

Rec'd. from Dr. J. J. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	3045, a	N	3045
		RML	111929
	(3045) <u>Boophilus australis</u> ♀'s & N		(3045) 117 ♀, 2 N <u>Boophilus geigy</u>
	(a) <u>Amblyomma variegatum</u> ♂ & ♀		(a) MISSING
	Cattle		Cattle
	Falaba, Sierra Leone		Falaba, Sierra Leone (locality not verified; 6 possible localities)
	19.VIII. -		19.VIII. -
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood
N	3046, a	N	3046
		RML	111930
	(3046) <u>Boophilus australis</u> 11 ♀'s		(3046) 11 ♀ <u>Boophilus geigy</u>
	(a) <u>Amblyomma variegatum</u> 10 ♂, 1 ♀		(a) MISSING
	Goats		Goats
	Gahnia, Sierra Leone		Gahnia, Sierra Leone (locality not verified)
	18.VIII.1914		18.VIII.1914
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood
N	3047, a	N	3047, a
		RML	111931
	(3047) <u>Boophilus australis</u> 5 ♀'s		(3047) 5 ♀ <u>Boophilus geigy</u>
	(a) <u>Haemaphysalis leachi</u> 1 ♀		(a) 1 ♀ <u>Haemaphysalis leachi</u>
	Dog		Dog
	Kombile, Sierra Leone		Kombile, Sierra Leone (locality not verified)
	21.VIII.1914		21.VIII.1914
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N 3048, a-e

(3048) Amblyomma variegatum ♂'s & ♀'s
 (a) Rhipicephalus lunulatus ♂'s & ♀'s

(b) Rhipicephalus falcatus ♂'s & ♀'s

(c) Boophilus australis ♂'s & N
 (d) Rhipicephalus sanguineus

(e) Haemaphysalis leachi 1♂

Cattle

Dunkiwallia, Sierra Leone

17.VII.1914

Rec'd. from Dr. J. J. Wood

N 3049, a

(3049) Boophilus australis ♀'s
 (a) Amblyomma variegatum ♂'s & ♀'s

Cattle

Gahnia, Sierra Leone

17-18.VIII.1914

Rec'd. from Dr. J. J. Wood

N 3048, a-e

RML 111932

(3048) MISSING
 (a) 9♂, 33♀ Rhipicephalus lunulatus
 (a) 4♂, 1♀ Rhipicephalus senegalensis
 (b) 20♂, 32♀ Rhipicephalus senegalensis
 (c) 6♀, 1 N Boophilus geigyi
 (d) 3♂, 2♀ Rhipicephalus sanguineus
 (d) 1♂ Rhipicephalus senegalensis
 (e) 1♂ Haemaphysalis leachi

Cattle

Dunkiwallia, Sierra Leone (locality not verified)

17.VII.1914

Rec'd. from Dr. J. J. Wood

N 3049

RML 111933

(3049) 1♂, 6♀ Boophilus geigyi
 (a) MISSING

Cattle

Gahnia, Sierra Leone (locality not verified)

17-18.VIII.1914

Rec'd. from Dr. J. J. Wood

ORIGINAL DETERMINATION

N 3050, a-c

(3050) Boophilus australis 1 ♂ & ♀'s
 (a) Amblyomma variegatum 2 ♂'s & 2 ♀'s
 (b) Rhipicephalus falcatus 3 ♂'s & 3 ♀'s
 (c) Rhipicephalus lunulatus ♂'s & ♀'s

Cattle

Kamadugu, Securella, Sierra Leone

30.VII.1914

Rec'd. from Dr. J. J. Wood

N 3051, a

(3051) Rhipicephalus lunulatus ♀
 (a) Rhipicephalus sanguineus var. sulcatus ♀

One off self, one off dispenser in hospital

Sonkonja, Koinadugu District, Sierra Leone

Dr. J. Y. Wood

CURRENT STATUS

N 3050, b, c

RML 111934

(3050) 1 ♂, 25 ♀ Boophilus geigy
 (a) MISSING
 (b) 3 ♂, 3 ♀ Rhipicephalus senegalensis
 (c) 7 ♂, 10 ♀ Rhipicephalus lunulatus

Cattle

Kamadugu Sokurela (09.26 N, 11. 29 W), Sierra Leone

30.VII.1914

Rec'd. from Dr. J. J. Wood

N 3051, a

RML 111935

(3051) 1 ♀ Rhipicephalus lunulatus
 (a) 1 ♀ Rhipicephalus sanguineus

Homo sapiens (1), Dispenser in hospital (1)

Sonkonja (09.43 N, 11.23 W), Sierra Leone

Dr. J. Y. Wood

As noted earlier Dr. Wood's name was entered into the catalogue as both J. J. and J. Y. His correct middle initial is Y, as cited by Nuttall in his annual report for 1914.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3052, a, b

(3052) Amblyomma variegatum 1 ♂, 3 ♀
 (a) Rhipicephalus falcatus 3 ♀
 (b) Rhipicephalus lunulatus 1 ♂, 2 ♀

Cattle

Ninkintumania, Sierra Leone

18.IX.1914

Dr. J. Y. Wood

N 3052 a, b

RML 111936

(3052) MISSING
 (a) 3 ♀ Rhipicephalus senegalensis
 (b) 1 ♂, 1 ♀ Rhipicephalus lunulatus
 (b) 1 ♀ Rhipicephalus senegalensis

Cattle

Ninkintumania, Sierra Leone
 (locality not verified)

18.IX.1914

Dr. J. Y. Wood

N 3053, a-c

(3053) Boophilus australis
 (a) Rhipicephalus falcatus
 (b) Amblyomma variegatum
 (c) Haemaphysalis leachi 1 ♂, 1 ♀

Cattle

Boalakarafaia, Sierra Leone

22.VIII.1914

Dr. J. Y. Wood

N 3053, a, c

RML 111937

(3053) 1 ♂, 75 ♀ Boophilus geigyi
 (a) 16 ♂, 16 ♀ Rhipicephalus senegalensis
 (b) MISSING
 (c) 1 ♂, 1 ♀ Haemaphysalis leachi

Cattle

Boalakarafaia (09.37 N, 11.00 W),
 Sierra Leone

22.VIII.1914

Dr. J. Y. Wood

Haemaphysalis leachi
 vial label incorrectly numbered
 3035C.

ORIGINAL DETERMINATION

N 3054, a-e

(3054) Rhipicephalus lunulatus ♀'s,

(a) Rhipicephalus falcatus ♂'s, ♀'s

(b) Rhipicephalus sanguineus 2 ♂

(c) Boophilus australis 1 ♂, ♀'s

(d) Amblyomma variegatum 4 ♂, 1 ♀

(e) Haemaphysalis leachi 1 ♂

Sheep

Kinkintumania, Sierra Leone

11.VII.1914

Dr. J. Y. Wood

CURRENT STATUS

N 3054, a-c, e

RML 111938

(3054) 17 ♂, 34 ♀ Rhipicephalus lunulatus

(3054) 4 ♂, 2 ♀ Rhipicephalus senegalensis

(a) 11 ♂, 18 ♀ Rhipicephalus senegalensis

(a) 1 ♀ Rhipicephalus sanguineus

(b) 2 ♂ Rhipicephalus sanguineus

(c) 2 ♂, 19 ♀ Boophilus geigy

(d) MISSING

(e) 1 ♂ Haemaphysalis leachi

Sheep

Kinkintumania, Sierra Leone
(locality not verified)

11.VII.1914

Dr. J. Y. Wood

(3054a) cited: Clifford & Anastos (1962: 21). The vial label for this collection bears the data ex cattle, Yeria, Sierra Leone, 21.VII.1912, Dr. J. Y. Wood. The label data are probably incorrect because they correspond to collection data for N3055 immediately following.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3055, a-c

(3055) Rhipicephalus lunulatus ♂'s,
♀'s

(a) Rhipicephalus falcatus

(b) Boophilus australis ♀'s

(c) Amblyomma variegatum 5 ♂

Cattle

Yeria, Sierra Leone

21.VII.1912

Dr. J. Y. Wood

N 3056, a

(3056) Boophilus australis 2 ♂'s
♀'s, N's

(a) Rhipicephalus falcatus 1 ♂, 1 ♀

Goats

Kulakunko, Sierra Leone

20.VII.1914

Dr. J. Y. Wood

N 3055, a, b

RML 111939

(3055) 21 ♂, 54 ♀ Rhipicephalus lunulatus

(3055) 2 ♀ Rhipicephalus senegalensis

(a) 4 ♂, 9 ♀ Rhipicephalus senegalensis

(b) 12 ♀ Boophilus geigy

(c) MISSING

Cattle

Perhaps Yaraia (08.56 N, 11.08 W),
Sierra Leone

21.VII.1912

Dr. J. Y. Wood

N 3056, a

RML 111940

(3056) 1 ♂, 34 ♀, 1 N Boophilus geigy

(a) 1 ♂, 1 ♀ Rhipicephalus senegalensis

Goats

Kulakunko, Sierra Leone (locality
not verified)

20.VII.1914

Dr. J. Y. Wood

Ticks received back 28.XI.1914 from Imperial Bureau of Entomology
per Guy A. K. Marshall:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3059	N	3059
		RML	111943
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		3 ♂, 4 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Lorha, Northern Territory, Gold Coast, W. Africa		Perhaps Lora (09.23 N, 01.51 W) Northern Region, Ghana
	4.XI.1913		4.XI.1913
	Dr. Corson		Dr. Corson
	Imp. Bur. Ent. No. 882.		
N	3060	N	3060
		RML	111944
	<u>Rhipicephalus sanguineus</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Mityana, Uganda		Mityana (00.24 N, 32.03 E), District of Buganda, Uganda
	VI.1913		VI.1913
	C. C. Gowday (No. 5087)		C. C. Gowday
	Imp. Bur. Ent. No. 883.		
N	3061	N	3061 MISSING
	<u>Amblyomma variegatum</u> 2 ♂, 2 ♀		
	Cattle		
	Tamale, N. Territory, Gold Coast, W. Africa		
	29.VI.1912		
	Dr. Harpir		
	Imp. Bur. Ent. No. 884.		

ORIGINAL DETERMINATION

N 3062

Rhipicephalus falcatus ♂'s, ♀'s

Warthog

Dimawa, N. Territory, Gold Coast
W. Africa

Imp. Bur. Ent. No. 885.

N 3063

Amblyomma variegatum 2 ♂, 2 ♀
(variation)

Off grass

Yapi, N. Territory, Gold Coast,
W. Africa

VI.1914

Dr. J. J. Simpson

Imp. Bur. Ent. No. 886.

CURRENT STATUS

N 3062

RML 111945

24 ♂, 9 ♀ Rhipicephalus senegalensis
1 ♂, 1 ♀ Rhipicephalus lunulatusPhacochoerus aethiopicusPerhaps Dimalla (09.27 N, 00.54 W),
Northern Region, Ghana

N 3063 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	3064	N	3064
		RML	111946
	<u>Boophilus australis</u> 4 ♂, 4 ♀		3 ♂, 4 ♀ <u>Boophilus microplus</u>
	"Mpoula" bull dead of Trypanosomiasis		"Mpoula"
	Port Herald, Nyasaland		Port Herald now Nsanje (16.55 S, 35.16 E), Malawi
	10.VIII.1913		10.VIII.1913
	Dr. J.E.S. Old		Dr. J.E.S. Old
	Imp. Bur. Ent. No. 887.		
N	3065	N	3065
		RML	111947
	<u>Haemaphysalis leachi</u> ♀'s (small form with short scutum & concave palps)		4 ♀ <u>Haemaphysalis leachi</u>
	<u>Tachyoryctes audax</u>		<u>Tachyoryctes splendens</u>
	Near Embu, E. of Mt. Kenya, Brit. E. Africa		Near Embu (00.32 S, 37.27 E), Kenya
	2.II.1911		2.II.1911
	S. A. Neave		S. A. Neave
	Imp. Bur. Ent. No. 267.		
N	3066	N	3066
		RML	111948
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		6 ♂, 6 ♀ <u>Rhipicephalus evertsi</u>
	Off ?		Off ?
	Olorogoti, Masai Reserve, Brit. E. Africa		Olorongoti (00.29 S, 36.28 E), Kenya
	XII.1913		XII.1913
	Capt. A. O. Luckman		Capt. A. O. Luckman
	Imp. Bur. Ent. No. 779.		

Ticks received 25.XI.1914 from Indian Museum, Calcutta, per Mr. F. H. Gravely, being pickings from lots of common species to be returned:-

ORIGINAL DETERMINATIONCURRENT STATUS

N 3067

N 3067 MISSING

Hyalomma aegyptium 2 ♂, 1 ♀, 1 N

Mostly off horses

Zairat, Baluchistan

VIII.1914

Major Wilson

Ind. Mus. No. $\frac{2165}{17}$.

N 3068

N 3068

RML 111949

Ornithodoros tholozani 5 N5 N Ornithodoros tholozani

From empty house

From empty house

Zairat, Baluchistan

Ziarat, Pakistan (locality
not verified; 6 possible localities)

VIII.1914

VIII.1914

Major Wilson through Major Stammers

Major Wilson through Major Stammers

Ind. Mus. No. $\frac{2166}{17}$.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3069

Amblyomma integrum 4 ♂, 2 ♀

Found under stones and on bushes in jungle (stated to be liable to attack man)

Barkul, 0-1000 ft., Puri District, Orissa

1-3.VIII.1914

F. H. Gravely

Ind. Mus. No. $\frac{2170}{17}$.
(picked for variation from ca 15 specimens).
L. E. Robinson det. 1926.
Found with Haem. spinigera ♂, ♀

N 3070

Aponomma gervaisi 2 ♂, 1 ♀, 1 N

Varanus bengalensis (venter)

Barkuda Island, Lake Chilka, Ganjam District, Madras Presidency

19.VII.1914

Chilka Survey coll.

Ind. Mus. No. $\frac{2171}{17}$.

N 3069

RML 111950

4 ♂, 2 ♀ Amblyomma integrum

Found under stones and on bushes in jungle (stated to be liable to attack man)

Barkul, Puri District, Orissa (21.00 N, 84.00 E), India (0-305 m)

1-3.VIII.1914

F. H. Gravely

Cited: Robinson (1926: 114); Sharif (1928: 322).

N 3070

RML 111951

1 ♂, 1 ♀, 1 N Aponomma gervaisi

Varanus bengalensis (venter)

Barkuda Island, Lake Chilka (19.46 N, 85.20 E), India

19.VII.1914

Chilka Survey coll.

Cited: Sharif (1928: 337).

ORIGINAL DETERMINATION

N 3071

Haemaphysalis bispinosa var.
intermedia 1 ♂, 2 ♀Sus cristatus ♀Near Barhi, Hazaribagh District,
Chota Nagpur

21.VII.1914

Major O. A. Smith

Ind. Mus. No. $\frac{2172}{17}$ 3071 found with (a) Rhip.
haemaphysaloides ♀ and (b)
? Hyal. monstrosum ♀.

N 3072

Haemaphysalis bispinosa 4 ♂, 2 ♀Hemitragus hylocrius (Nilgiri wild
goat)Parambikulam (1700-3200 ft.)
Cochin State, South India

16-24.IX.1914

F. H. Gravely

Ind. Mus. No. $\frac{2173}{17}$ (a).3072 found with Hyalomma n. sp.
♂'s, ♀'s (to be described).CURRENT STATUS

N 3071

RML 111952

1 ♂, 2 ♀ Haemaphysalis paraturturis
ParatypesSus scrofa cristatus ♀Near Barhi (24.18 N, 85.25 E),
India

21.VII.1914

Major O. A. Smith

Cited: Nuttall & Warburton
(1915: 435); Hoogstraal et al
(1963: 686) original description
of H. paraturturis.

N 3072

RML 111953

2 ♂, 2 ♀ Haemaphysalis bispinosa
2 ♂ Haemaphysalis turturisHemitragus hylocriusParambikulam (10.23 N, 76.49 E),
India (518-975 m)

16-24.IX.1914

F. H. Gravely

Cited: Nuttall & Warburton
(1915: 432).The Hyalomma n. sp. to be described
was Hyalomma kumari Sharif
(1928: 319).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3073

Haemaphysalis parva 1 ♂, 1 ♀

Lepus sp.

Satpara, Lake Chilka, Orissa

IX.1914

Chilka Survey coll.

Ind. Mus. No. $\frac{2176.}{17}$

Found with (a) Haem. leachi
var. indica ♀, (b) Amblyomma
sp. N's, (c) Rhip. haemaphysaloides
♂, ♀.

N 3074

Dermacentor auratus 2 ♂, 2 ♀

Ursus malayensis

Ulu Gombak, Selangor

1914

C. Strickland

"T 65".

N 3073

RML 71473

1 ♂, 1 ♀ Haemaphysalis intermedia

Lepus sp.

Satpara (19.39 N, 85.26 E),
Lake Chilka, India

IX.1914

Chilka Survey coll.

N 3074

RML 111954

2 ♂, 2 ♀ Dermacentor sp.

Helarctos malayanus

Ulu Gombak Forest Reserve
(03.18 N, 101.47 E), Selangor,
Malaysia

1914

C. Strickland

ORIGINAL DETERMINATION

N 3075

Amblyomma lepidum ♂'s, ♀'s

Buffalo

Meshra el Rom

21.VI.1909

Rec'd. from H. H. King
(Entomologist Khartum)

L.E.R. det. XII.1914
(1 ♂, 1 ♀ mounted as slides
in cells II. 1915).

N 3076

Aponomma trimaculatum ♂'s, ♀'s, N's

"Iguana monitor" lizard

Alabang Rizal, Philippine Islands

23.IV.1912

M. B. Mitzmain

Mitzmain No. 14.

L.E.R. det. 10.XII.1914.

CURRENT STATUS

N 3075

RML 111955

2 ♂, 2 ♀ Amblyomma lepidum

Syncerus caffer

Perhaps Mashra ar Raqq (08.25 N,
29.16 E), Sudan

21.VI.1909

Rec'd. from H. H. King
(Entomologist Khartum)

Slides missing
Robinson (1926: 97) gave the
collection date 21.VI.1910.

N 3076

RML 111956

7 ♂, 2 ♀, 2 N Aponomma trimaculatum

"Iguana monitor" lizard

Alabang (14.25 N, 121.03 E),
Philippines

23.IV.1912

M. B. Mitzmain

ORIGINAL DETERMINATIONCURRENT STATUS

N	3077, a	N	3077, a
		RML	111957
	(3077) <u>Aponomma trimaculatum</u> ♂'s, N's (a) <u>Amblyomma helvolum</u> ♂'s		(3077) 7 ♂, 12 N <u>Aponomma trimaculatum</u> (a) 10 ♂ <u>Amblyomma helvolum</u>
	Monitor lizard		Monitor lizard
	Occidental Negros, Philippine Islands		Province of Negros Occidental (10.25 N, 123.00 E), Philippines
	XII.1911		XII.1911
	M. B. Mitzmain		M. B. Mitzmain
	Mitzmain No. 25. [2 ♂ mounted in cells with other <u>Aponomma</u> ♂ spp.]		Note in vials, "♂ ♂ given Sharif Ap. 1929."
	Collector's note reads "the large ticks from caudal region, the small ticks from axillae."		Slide missing.
	L.E.R. det. 10.XII.1914. Redet. of 3077a 1926.		
N	3078	N	3078
		RML	111958
	<u>Aponomma trimaculatum</u> ♀'s, N's		1 ♀, 15 N <u>Aponomma trimaculatum</u>
	Monitor lizard		Monitor lizard
	La Carlota, Occidental Negros Province, Philippine Islds.		La Carlota (10.25 N, 122.55 E), Negros Occidental Province, Philippines
	11.XI.1911		11.XI.1911
	M. B. Mitzmain		M. B. Mitzmain
	Mitzmain No. 26.		

Ticks received from Dr. J. W. Scott-Macfie, Pathologist, Accra Laboratory, Victoriaborg, Accra, Gold Coast Colony, W. Africa 9.XII.1914:-

ORIGINAL DETERMINATION

CURRENT STATUS

N 3079, a, b

N 3079

RML 111959

(3079) Boophilus sp. ♀'s
(a) Amblyomma variegatum N's
(b) Hyalomma aegyptium 1 ♂

(3079) 5 ♀ Boophilus decoloratus
(a) MISSING
(b) MISSING

Sheep

Sheep

Accra, Gold Coast

Accra (05.33 N, 00.13 W), Ghana

14.XI.1914

14.XI.1914

J. W. Scott-Macfie

J. W. Scott-Macfie

Macfie's No. 1.

Dr. Macfie writes 15.XI.1914
saying the sheep & cattle are
mostly infected with a parasite
of the P. mutans type which he
thinks some of these ticks must
carry.

G.H.F.N.

N 3080, a, b

N 3080, a

RML 111960

(3080) Amblyomma variegatum ♂'s, ♀'s
N's
(a) Boophilus sp. ♀'s
(b) Hyalomma aegyptium 1 ♂, 1 ♀

(3080) 13 ♂, 11 ♀, 2 N Amblyomma variegatum
(a) 7 ♀ Boophilus decoloratus
(b) MISSING

Dwarf cattle

Cattle (dwarf)

Accra, Gold Coast

Accra (05.33 N, 00.13 W), Ghana

24.X.1914

24.X.1914

Dr. J. W. Scott-Macfie

Dr. J. W. Scott-Macfie

Macfie No. 2.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3081

Amblyomma marmoreum NAgama colonorum (lizard)

Accra, Gold Coast

27.VIII.1914

Dr. J. W. Scott-Macfie

Macfie No. 3.

N 3081

RML 111961

1 N Amblyomma sp.Agama agama

Accra (05.33 N, 00.13 W), Ghana

27.VIII.1914

Dr. J. W. Scott-Macfie

N 3082

Amblyomma marmoreum N's, L'sVaranus niloticus (Monitor)

Accra, Gold Coast

28.VIII.1914

Dr. J. W. Scott-Macfie

Macfie No. 4.

"Larvae on ear drums, others
on digits."

N 3082

RML 111962

9 N, 1 L Amblyomma sp.Varanus niloticus

Accra (05.33 N, 00.13 W), Ghana

28.VII.1914

Dr. J. W. Scott-Macfie

The nymphs are of two different
species of Amblyomma.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3083

Amblyomma marmoreum 1 NDispholidus typus
[large green snake No. 57]

Accra, Gold Coast

7.IX.1914

Dr. J. W. Scott-Macfie

Macfie No. 5.

Note re 3083 and 3084. Dr. Macfie wrote, later, 28.I.1915 giving the sci. names of the hosts as det'd. by Dr. Boulenger of Brit. Mus.

N 3083

RML 111963

1 N Amblyomma sp.Dispholidus typus

Accra (05.33 N, 00.13 W), Ghana

7.IX.1914

Dr. J. W. Scott-Macfie

N 3084

Aponomma laeve 3 ♂Ramphiophis oxyrhynchus
[Snake, buff coloured back and pale belly, No. 288]

Accra, Gold Coast

15.X.1914

Dr. J. W. Scott-Macfie

Macfie No. 6.

Nos. 3083, 3086 & 3087 are probably Amb. nuttalli Dö.

N 3084

RML 111964

3 ♂ Aponomma latumRamphiophis oxyrhynchus

Accra (05.33 N, 00.13 W), Ghana

15.X.1914

Dr. J. W. Scott-Macfie

ORIGINAL DETERMINATIONCURRENT STATUS

N 3085, a

(3085) Amblyomma nuttalli 1 ♀, 1 N
(a) Haemaphysalis leachi 1 ♀

Hedgehog

Accra, Gold Coast

20.X.1914

Dr. J. W. Scott-Macfie

Macfie No. 7.

(3085) det. L.E.R. 1926.

N 3085, a

RML 111965

(3085) 1 ♀, 1 N Amblyomma nuttalli
(a) 1 ♀ Haemaphysalis leachi

Hedgehog

Accra (05.33 N, 00.13 W), Ghana

20.X.1914

Dr. J. W. Scott-Macfie

(3085) cited: Theiler & Salisbury
(1959: 115). (3085a) cited:
Nuttall & Warburton (1915: 473).

Nymph in separate vial.

N 3086

Amblyomma marmoreum 4 N'sAgama colonorum (lizard)
[No. 351]

Accra, Gold Coast

24.X.1914

Dr. J. W. Scott-Macfie

Macfie No. 8.

N 3086

RML 111966

4 N Amblyomma nuttalliAgama agama

Accra (05.33 N, 00.13 W), Ghana

24.X.1914

Dr. J. W. Scott-Macfie

These nymphs appear identical with
the nymph from N3085.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3087

N 3087

RML 111967

Amblyomma marmoreum 3 N's3 N Amblyomma sp.Agama colonorum (lizard)
from axillaeAgama agama

Accra, Gold Coast

Accra (05.33 N, 00.13 W), Ghana

24.X.1914

24.X.1914

Dr. J. W. Scott-Macfie

Dr. J. W. Scott-Macfie

Macfie No. 9.

N 3088

N 3088

RML 111968

Amblyomma nuttalli ♂'s & gorged ♀'s,
N's5 ♂, 6 ♀, 3 N Amblyomma nuttalli

Hedgehog No.[438]

Hedgehog

Accra, Gold Coast

Accra (05.33 N, 00.13 W), Ghana

18.XI.1914

18.XI.1914

Dr. J. W. Scott-Macfie

Dr. J. W. Scott-Macfie

Macfie No. 10-11.

Dr. Macfie writes (18.XI.1914) of N3088 that the ticks were found that morning on a hedgehog which was moribund, the man who found them said many gorged ♀'s dropped off in carrying animal to the laboratory. The blood "was extremely fluid & looked like pale red water. I could find no parasites in it, but there were great numbers of nucleated red corpuscles. The hedgehog died soon after it was brought to me. On dissection all the tissues & organs were found to be extremely pale, but otherwise healthy. One might almost suspect that the animal had been bled to death by the ticks on its back."

G.H.F.N. 11.XII.1914

Cited: Robinson (1926: 93) who gave the collection number as N3088e. Theiler & Salisbury (1959: 115) listed 5 ♀ in this collection.

Collection in 3 vials.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3089

Ixodes holocyclus 1 N

Dog

Gumundi, Australia

8.V.1913

Sent by Mr. Munro Hull, 13.V.1913

G.H.F.N. det.

N 3090

Haemaphysalis bancrofti 1 ♂, 2 N

Rat-Kangaroo

Queensland, Australia

Presented 17.XII.1914

Presented by L. Harrison

(L.H. says they were probably
collected by Dr. T. L. Bancroft
at Eidsvold, Queensland
(2 ♂, 5 N, 2 L returned to donor)

Harrison No. 44.

N 3089

RML 111969

1 N Ixodes holocyclus

Dog

Eumundi (26.29 S, 152.57 E),
Queensland, Australia

8.V.1913

Sent by Mr. Munro Hull, 13.V.1913

Cited: Nuttall (1916: 329).

N 3090

RML 111970

1 ♂, 2 N Haemaphysalis bancrofti

Probably Bettongia tropica

Probably Eidsvold (25.22 S,
151.07 E), Queensland, Australia

Presented 17.XII.1914

Probably Dr. T. L. Bancroft

Cited: Nuttall & Warburton
(1915: 490).

Ticks rec'd back as gifts 23.XII.1914 from Imperial Bureau of Entomology per G.A.K. Marshall. Specimens determined by us:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3091	N	3091
		RML	111971
	<u>Amblyomma paulopunctatum</u> 1 ♀		1 ♀ <u>Amblyomma paulopunctatum</u>
	Off grasses		Off grasses
	Daro Forest, Toro, Uganda, B.E. Africa		Daro Forest, District of Toro (00.30 N, 30.30 E), Uganda
	X.1911		X.1911
	S. A. Neave		S. A. Neave
	(L.E.R. det. 1926) I.B.E. No. 460a.		Cited: Robinson (1926: 85).
N	3092	N	3092
		RML	111972
	<u>Amblyomma tholloni</u> 1 ♀		1 ♀ <u>Amblyomma tholloni</u>
	Off grass in forest		Off grass in forest
	Semliki Valley, Uganda, E.A.		Semliki Forest (00.44 N, 30.03 E), Uganda
	XI.1911		XI.1911
	S. A. Neave		S. A. Neave
	I.B.E. No. 468. (L.E.R. det.).		Cited: Robinson (1926: 252).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3093

Amblyomma nuttalli 1 ♂

Tortoise

Upper Shire Valley, Nyasaland,
B.C. Africa

8.X.1911

Dr. J. B. Davey

I.B.E. No. 543.
(G.H.F.N. & L.E.R. det.).

N 3094

Rhipicephalus ziemanni 7 ♂, 4 ♀

Harnessed antelope

Port Lokko, Sierra Leone, W. Africa

11.V.1912

Dr. J. J. Simpson

I.B.E. No. 584a
(C.W. det.).

N 3093

RML 111973

1 ♂ Amblyomma nuttalli

Tortoise

Liwonde (15.04 S, 35.13 E), Malawi

8.X.1911

Dr. J. B. Davey

N 3094

RML 111974

5 ♂, 4 ♀ Rhipicephalus ziemanni

Antelope (harnessed)

Port Loko (08.46 N, 12.47 W),
Sierra Leone

11.V.1912

Dr. J. J. Simpson

ORIGINAL DETERMINATIONCURRENT STATUS

N 3095

N 3095

RML 111975

Rhipicephalus masseyi 2 ♂2 ♂ Rhipicephalus masseyi

Dogs

Dogs

Mlanje, Nyasaland, B.C. Africa

Mlanje (16.02 S, 35.30 E),
Mlanje District, Malawi

VIII.1913

VIII.1913

S. A. Neave

S. A. Neave

I.B.E. No. 734a

(C.W. det.) Not typical.

These males do not agree well with the type series of R. masseyi (N246). However, they are being retained under this name until such time as revisionary work is undertaken on R. masseyi and related species.

Ticks rec'd. 28.XII.1914 from Dr. H. K. Wise, Surgeon General's Office, Georgetown, Demerara, British Guiana. Collected by himself far in the Interior of the Colony in areas where few men penetrate and "where bushes & long grass brush against you at every step" - hitherto unexplored country:-

N 3096

N 3096

RML 111976

Amblyomma cajennense 1 ♀1 ♀ Amblyomma cajennense

Man

Homo sapiens

Rupununi River, British Guiana

Rupununi River (04.03 N, 58.34 W),
Guyana

IX.1913

IX.1913

Dr. H. K. Wise

Dr. H. K. Wise

Wise's No. 1609.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3097
Amblyomma cajennense 1 ♂, 1 ♀
 Man
 Rupununi Forest, British Guiana
 IX.1913
 Dr. H. K. Wise
 Wise's No. 1611, 1620.

N 3097 MISSING

N 3098
Amblyomma cajennense 1 N
 Man
 Essequibo River, British Guiana
 IX.1913
 Dr. H. K. Wise
 Wise's No. 1648.

N 3098 MISSING

N 3099
Amblyomma cajennense 1 ♂, 1 ♀
 Man
 Siparuni River, British Guiana
 X.1913
 Dr. H. K. Wise
 Wise's No. 1649.
 G.H.F.N. & C.W. det 6.I.15

N 3099
 RML 111977
 1 ♂, 1 ♀ Amblyomma oblongoguttatum
Homo sapiens
 Siparuni River (04.50 N, 58.49 W),
 Guyana
 X.1913
 Dr. H. K. Wise

Ticks received 7.I.1915 from Mr. F. C. Bishopp, P.O. Box 208, Dallas, Texas, U.S.A.:-

ORIGINAL DETERMINATIONCURRENT STATUS

N 3100

N 3100

RML 57169

Dermacentor nigrolineatus 2 ♂, 2 ♀, L1 ♀, 1 L Dermacentor albipictus

Cattle

Cattle

Lake, Tennessee, U.S.A.

Lake City (36.13 N, 84.09 W),
Tennessee, U.S.A.

Rec'd. I.1915

6.XII.1911

Rec'd. from F. C. Bishopp

H. P. Wood

(Acc. No. 2390).

Collection data taken from
Bishopp's accession card.
An additional 11 ♂, 4 N are in
the RML collection.

N 3101

N 3101

RML 59961

Dermacentor nigrolineatus 5 ♀5 ♀ Dermacentor albipictus

Cow

Cow

Lorman, Mississippi, U.S.A.

Lorman (31.49 N, 91.03 W),
Mississippi, U.S.A.

Rec'd. I.1915

27.I.1913

Rec'd. from F. C. Bishopp

A. T. Montgomery

(Acc. No. 2758).

Collection data taken from
Bishopp's accession card.(B's det. confirmed C.W. det.
8.I.1915).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3102

N 3102 MISSING

Ornithodoros moubata
(6, badly preserved)

"about 5°40'S and 23°30'E, [Belgian Congo], which is a new locality for them."

Rec'd. 2.I.1915

Rec'd. from Dr. A. Yale Massey,
Belgian Congo Medical Service,
Lusambo, Belgian Congo

C.W. det. 8.I.1915.

Ticks collected by Charles Harpley, Quick Laboratory Assistant whilst in Antigua assisting Dr. E. S. Marshall in work on Ankylostomiasis:-

N 3103

N 3103

RML 111978

Rhipicephalus sanguineus ♂'s, ♀'s,
1 N

47 ♂, 6 ♀, 1 N Rhipicephalus
sanguineus

Dog

Dog

St. John's, Antigua, W.I.

Saint John's (17.06 N, 61.51 W),
Antigua

27.VII.1914

27.VII.1914

C. Harpley

C. Harpley

N 3104

N 3104

RML 111979

Rhipicephalus sanguineus N's, L's

9 N, 16 L Rhipicephalus sanguineus

Puppy dog

Dog

St. John's, Antigua, W.I.

Saint John's (17.06 N, 61.51 W),
Antigua

2.XI.1914

2.XI.1914

C. Harpley

C. Harpley

ORIGINAL DETERMINATIONCURRENT STATUS

N 3105
Boophilus australis 1 ♂, ♀'s
 Calf
 St. John's, Antigua, W.I.
 17.XI.1914
 C. Harpley
 (3103-3105 C.W. det. 8.I.1915).

N 3105 MISSING

N 3106
Boophilus australis 1 ♂, ♀'s
 Cow
 St. John's Antigua, W.I.
 15.XI.1914
 C. Harpley
 C.W. det. 8.I.1915.

N 3106 MISSING

N 3107
Boophilus australis ♀'s
 Cow
 St. John's, Antigua, W.I.
 16.XI.1914
 C. Harpley
 C.W. det. 8.I.1915.

N 3107
 RML 111980
 83 ♀ Boophilus microplus
 Cow
 Saint John's (17.06 N, 61.51 W),
 Antigua
 16.XI.1914
 C. Harpley

ORIGINAL DETERMINATIONCURRENT STATUS

N 3108

Ixodes hexagonus 1 ♀

Weasel

Swavesey, Cambs.

11.X.1913

G. B. Hony

(found in N. Cunliff's drawer when
putting his place tidy 11.I.1915).
G.H.F.N. & C.W. det.

Ticks rec'd back 19.I.1915 from Imperial Bureau of Entomology, London
per Mr. G.A.K. Marshall:-

N 3109

Rhipicephalus sanguineus
var. sulcatus 1 ♂

Bushcat sp.

Yapi, Northern Territory, Gold
Coast, W. Africa

26.VI.1914

Dr. J. J. Simpson

Imp. Bur. Ent. No. 904.
C.W. det.

N 3108

RML 111981

1 ♀ Ixodes hexagonusMustela nivalis

Swavesey (52.18 N, 0.00), England

11.X.1913

G. B. Hony

Cited: Nuttall (1916: 328).

N 3109

RML 111982

1 ♂ Rhipicephalus sanguineus

Bushcat

Yapei (09.10 N, 01.10 W), Northern
Region, Ghana

26.VI.1914

Dr. J. J. Simpson

ORIGINAL DETERMINATIONCURRENT STATUS

N 3110

Amblyomma dissimile 1 larvaBufo marinus

Berbice, British Guiana

5.VIII.1914

Rev. James Aiken

Imp. Bur. Ent. 905.
C.W. det.

N 3110

RML 111983

1 L Amblyomma sp.Bufo marinus

Berbice (05.27 N, 57.57 W), Guyana

5.VIII.1914

Rev. James Aiken

N 3111

Boophilus decoloratus 3 ♀

Dead cow

Karene District, Batkano,
Sierra Leone

16.X.1914

Dr. P. A. Clearkin

Imp. Bur. Ent. 906.
G.H.F.N. det.

N 3111

RML 111984

3 ♀ Boophilus geigy

Cow, dead

Perhaps either Batkanu (09.05 N,
12.25 W) or (09.47 N, 11.53 W),
Sierra Leone

16.X.1914

Dr. P. A. Clearkin

ORIGINAL DETERMINATIONCURRENT STATUS

N	3112, a	N	3112a
		RML	111985
	(3112) <u>Amblyomma variegatum</u> 2 ♂, 1 ♀		(3112) MISSING
	(a) <u>Boophilus decoloratus</u> 4 ♀		(a) 4 ♀ <u>Boophilus decoloratus</u>
	Hump-backed cattle		Cattle, hump backed
	Accra, Gold Coast, W. Africa		Accra (05.33 N, 00.13 W), Ghana
	XI.1914		XI.1914
	Dr. J. W. Scott-Macfie		Dr. J. W. Scott-Macfie
	Imp. Bur. Ent. No. 907, 907a		
	C.W. & G.H.F.N. det.		
N	3113	N	3113
		RML	111986
	<u>Rhipicephalus falcatus</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus</u> sp.
	Warthog		<u>Phacochoerus aethiopicus</u>
	Wasa River, Uganda		Wasa River (01.02 N, 30.30 E), Uganda
	13.IV.1914		13.IV.1914
	Dr. R. E. McConnell		Dr. R. E. McConnell
	Imp. Bur. Ent. No. 888 & 9		Pinned specimens
	C.W. det.		
	(pinned specs.).		

Ticks brought by Dr. de Blieck (Java) 19.I.1915 to Cambridge for us to determine. Specimens collected by him and his colleagues:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3114	N	3114
		RML	111987
	<u>Rhipicephalus haemaphysaloides</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus pilans</u>
	Horse		Horse
	Docko-Kangean, Madoera Island (N.E. of Java, dry climate)		Docko-Kangean, Madura Island (07.00 S, 113.20 E), Indonesia
	9.V.1914		9.V.1914
	Dr. de Blieck & colleagues		Dr. de Blieck & colleagues
	deB. No. 1 C.W. det.		
N	3115	N	3115
		RML	111988
	<u>Rhipicephalus sanguineus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Buitenzorg, Java		Bogor (06.35 S, 106.47 E), Java, Indonesia
	6.XI.1908		6.XI.1908
	Dr. de Blieck & colleagues		Dr. de Blieck & colleagues
	deB. No. 8 (G.H.F.N. det.).		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3116	N	3116
		RML	111989
	<u>Boophilus australis</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Buitenzorg, Java		Bogor (06.35 S, 106.47 E), Java, Indonesia
	Dr. de Blieck & colleagues		Dr. de Blieck & colleagues
	deB. No. 5 (G.H.F.N. & C.W. det.).		
N	3117, a	N	3117, a
		RML	111990
	(3117) <u>Dermacentor auratus</u> 1 ♂, 1 ♀		(3117) 1 ♂, 1 ♀ <u>Dermacentor</u> sp.
	(a) <u>Haemaphysalis papuana</u> 1 ♂		(a) 1 ♂ <u>Haemaphysalis papuana</u>
	Wild pig		<u>Sus scrofa</u>
	Tjibarosa, near Buitenzorg, Java		Tjibarusa (06.26 S, 107.04 E), Java, Indonesia
	1914		1914
	Dr. de Blieck & colleagues		Dr. de Blieck & colleagues
	deB. No. 6, 6a (3117) G.H.F.N. det. (a) G.H.F.N. & C.W. det.		(3117a) cited: Nuttall & Warburton (1915: 407).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3118	N	3118
		RML	111991
	<u>Aponomma gervaisi</u> var. <u>lucasi</u> 1 ♂		1 ♂ <u>Aponomma varanensis</u>
	"leguan"		"leguan"
	Buitenzorg, Java		Bogor (06.35 S, 106.47 E), Java, Indonesia
	1914		1914
	Dr. de Blieck & colleagues		Dr. de Blieck & colleagues
	deB. No. 8a C.W. det.		See also N3123, a
N	3119	N	3119
		RML	111992
	<u>Ixodes hexagonus</u> 1 N		1 N <u>Ixodes hexagonus</u>
	Stoat		<u>Mustela erminea</u>
	Fairhill, Tonbridge, Kent, England		Fairhill, Tonbridge (51.11 N, 00.17 E), Kent, England
	XII.1914		XII.1914
	P. A. Buxton		P. A. Buxton
	G.H.F.N. & C.W. det. (Found with flea N. 288 and mites N. 233).		Cited: Nuttall (1916: 328)
N	3120	N	3120
		RML	111993
	<u>Argas persicus</u> N's & adults		7 ♂, 8 ♀, 107 N <u>Argas persicus</u>
	Beni Ounif, Algeria		Parents from Beni Ounif (32.03 N, 01.15 W), Algeria; raised at Quick Laboratory, Cambridge (52.13 N, 00.08 E), England
	Strain raised in Quick Laboratory by Dr. Hindle.		See also N1561, N1574

ORIGINAL DETERMINATIONCURRENT STATUS

N 3121

N 3121

RML 111994

Argas persicus N's & adults49 ♂, 75 ♀, 162 N, 26 L Argas persicus

Khartoum, Soudan

Parents from Khartoum (15.36 N, 32.32 E), Sudan raised in Quick Laboratory, Cambridge (52.13 N, 00.08 E), England

III.1912

III.1912

(Strain raised in Quick Laboratory).

N 3122

N 3122 OMITTED CATALOGUE NUMBER

N 3123, a

N 3123, a

RML 111995

(3123) Amblyomma helvolum 1 ♂
(a) Aponomma gervaisi 4 ♀(3123) 1 ♂ Amblyomma helvolum
(a) 3 ♀ Aponomma varanensis

"leguan"

"leguan"

Buitenzorg, Java

Bogor (06.35 S, 106.47 E),
Java, Indonesia

1914

1914

Dr. de Blieck

Dr. de Blieck

de Blieck No. 8, 8a
L.E.R. det. 26.I.1915This collection apparently
identical to N 3118.

Ticks received 3.II.1915 from Malcolm E. MacGregor, B.A., Welcome Bureau of Scientific Research, 10 Henrietta St., Cavendish Sq., London, W. (Coll. of Bureau, mostly without data):-

ORIGINAL DETERMINATIONCURRENT STATUS

N 3124

N 3124

RML 111996

Amblyomma albolimbatus 4 ♂2 ♂ Amblyomma albolimbatusTrachysaurus rugosus
(stump-tailed lizard)Trachysaurus rugosus

Australia

Australia

12.VI.1906

12.VI.1906

Rec'd. from M.E. MacGregor

Rec'd. from M.E. MacGregor

MacG. No. 6

Cited: Robinson (1926: 227).

L.E.R. det., reports 6.III.1915
he is retaining 2 ♂.

N 3125

N 3125

RML 111997

Amblyomma geayi 2 ♂, 2 ♀1 ♂, 1 ♀ Amblyomma geayiBradypus tridactylus (sloth)Bradypus tridactylus

Manãos, Brazil

Manaus (03.08 S, 60.01 W), Brazil

T. P. Beddoes

T. P. Beddoes

MacG. No. 9.

Note in vial "1 ♂, 1 ♀ retained
by L.E.R."(Note that our type lot N1149 ♀'s
only from same collector & place!
So this must be some of the same
lot). G.H.F.N. & C.W. det.L.E.R. det. 1926
L.E.R. retains 1 ♂, 1 ♀,
returned 1 ♂, 1 ♀ 6.III.1915.Cited & figured: Robinson
(1926: 59, 61) but he incorrectly
gave the Nuttall number 3215 to
the ♀ figure.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3126

N 3126

RML 111998

Amblyomma clypeolatum 1 ♂1 ♂ Amblyomma clypeolatumCinyxis erosa [a land tortoise occurs
W. Africa]Kinixys erosa

No further data.

No further data

Rec'd. 3.II.1915

Rec'd. 3.II.1915

Rec'd. from M.E. MacGregor

Rec'd. from M.E. MacGregor

MacG. No. 11

Cited: Robinson (1926: 81) but he
gave collection data for N 1512.

L.E.R. det. 1926.

N 3127

N 3127

RML 111999

Amblyomma testudinarium 3 ♂3 ♂ Amblyomma testudinariumTapirus indicus (Malayan tapir)Tapirus indicus

Rec'd. 3.II.1915

Rec'd. 3.II.1915

Rec'd. from M.E. MacGregor

Rec'd. from M.E. MacGregor

MacG. No. 13.

C.W. & L.E.R. det.

ORIGINAL DETERMINATION

N 3128

Amblyomma nodosum 7 ♂Tamandua tetradactyla

(No further data but (!) our types
N 36 ♂'s, were from same host,
Zool. Soc. Gardens, London. These
are probably some of the same lot
taken at that time (1905) by
Dr. L.W. Sambon).

Rec'd. 3.II.1915

Rec'd. from M.E. MacGregor

MacG. No. 16.
G.H.F.N. & C.W. det.
5 ♂ returned, 2 ♂ retained by
L.E.R. 6.III.1915.
L.E.R. det. 1926.

N 3129

Haemaphysalis cinnabarina
var. punctata Larvae

Partridge

? place

15.VIII.1908

H. Smith

MacG. No. 1.
G.H.F.N. & C.W. det.

CURRENT STATUS

N 3128

RML 112000

5 ♂ Amblyomma nodosumTamandua tetradactyla

(No further data but (!) our types
N 36 ♂'s, were from same host,
Zool. Soc. Gardens, London. These
are probably some of the same lot
taken at that time (1905) by
Dr. L.W. Sambon).

Rec'd. 3.II.1915

Rec'd. from M.E. MacGregor

Although no Nuttall number was
cited, Robinson (1926: 199) listed
"♂'s off Tamandua tetradactyla, ?
Zool. Soc. Gardens, London,
Dr. L. W. Sambon donor, 1905"
which probably refers to this
collection.

N 3129

RML 112001

± 200 L Haemaphysalis sp.

Partridge

? place

15.VIII.1908

H. Smith

ORIGINAL DETERMINATION

N 3130

Aponomma gervaisi ♂'s

Bengal Monitor

Zool. Soc. Garden, London

L. Sambon

MacG. No. 3

C.W. det.

N 3131, a

(3131) Aponomma decorosum ♂
(a) Aponomma trimaculatum ♀

Lace monitor

Zool. Soc. Garden, London

L. Sambon

MacG. No. 4, 4a
(3131) C.W. det.
(a) L.E.R. det.

CURRENT STATUS

N 3130

RML 112002

3 ♂ Aponomma gervaisi

Varanus bengalensis

Zoological Society Gardens, London
(51.30 N, 00.07 W), England

L. Sambon

MacG. No. 3

N 3131, a

RML 112003

(3131) 1 ♂ Aponomma fimbriatum
(a) 1 ♀ Aponomma trimaculatum

Varanus sp.

Zoological Society Gardens, London
(51.30 N, 00.07 W), England

L. Sambon

(3131a) is an abnormal ♀ with
hypostome dentition 4/7 or more.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3132

N 3132

RML 112004

Ixodes vespertilionis 1 ♀
(semi-gorged)1 ♀ Ixodes vespertilionisBat (Vespertilio kuhni)Pipistrellus kuhli

Algiers, Algeria

Algiers (36.47 N, 03.03 E), Algeria

8.I.1915

8.I.1915

Rivet

Rivet

Gift of Dr. Edmond Sergent (perfect
but for hypostome.
Agrees well with my figure in
"Ticks" Part II.).
G.H.F.N. det.

Cited: Nuttall (1916: 334).

N 3133

N 3133 MISSING

Ixodes tenuirostris Larvae

Mole

Shrewsbury, England

22.XII.1908

Mr. R.F.L. Burton

Mounted on 4 slides 19.X.1909
(I-IV slides) G.H.F.N. det. 11.II.1915.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3134

Argas vespertilionis

Off ?

Zaragoza

IX.1914

Sent by Longin Navás S.J.
Colegio del Salvador,
Apartado Num. 32,
Zaragoza, Spain
Rec'd. 15.II.1915 [dry].
G.H.F.N. det.

N 3134

RML 112005

2 L Argas reflexus

Off ?

Zaragoza (41.38 N, 00.53 W), Spain

IX.1914

Sent by Longin Navás S.J.
Colegio del Salvador,
Apartado Num 32,
Zaragoza, Spain
Rec'd. 15.II.1915 [dry].
G.H.F.N. det.

N 3135

Argas transgariiepinus 1 ♀
(Rec'd. alive)

Found in old wood

Valdealgorfa, Tereul, Spain

Rec'd. 15.II.1915

Rec'd. from Longin Navas

Slide
G.H.F.N. det.

Tick kept alive since it was
captured 4 months ago. (This
the first record in Europe!
See "Ticks" Part I p. 29;
types from S. Africa Gariep =
Orange River). G.H.F.N. det.

Water colour fig. by Edwin Wilson
11.III.1915, the last he executed
for me (he died 15.IV.1915!).

13.III.1915 partly fed on fowl for
45 minutes, refused to feed on fowl
28.IV.1915.

N 3135 MISSING

Hoogstraal (1954: 273) cited this
record but was also unable to locate
the specimen.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3136

N 3136 MISSING

Hyalomma sp. 1 ♂Capra falconeri (The Markhoar)

No further data

Gift of Hon. N.C. Rothschild
(slide R 958)Note: The host occurs in
Kashmir, Afghanistan, Gilgit, etc.
[1 slide]

N 3137

N 3137 MISSING

Hyalomma aegyptium ♂'s, ♀'s

India

Data lost, mounted as slides by
C. Warburton to show diff't. parts:
capitulum, spiracles, etc!
[7 slides]

N 3138

N 3138

RML 112006

Aponomma laeve var. capensis 1 ♂1 ♂ Aponomma sp.EchidnaEchidna sp.

No further data

No further data

Gift of Hon. N.C. Rothschild

Gift of Hon. N.C. Rothschild

(Unmounted by me from a slide R. 926)

This specimen lacks cervical pits,
otherwise it is close to
Aponomma pattoni.

L.E.R. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3139
Hyalomma syriacum
 Tortoise
 No further data
 Gift of Hon. N.C. Rothschild
 (5 slides R. 1012-1020)
 [5 slides] (I-V)

N 3139 MISSING

N 3140
Hyalomma syriacum 2 ♀
Testudo pardalis
 No further data
 Gift of Hon. N.C. Rothschild
 (2 slides: R.1022-1023)
 [2 slides I, II]

N 3140 MISSING

N 3141
Hyalomma syriacum
 Araconda [sic]
 Gift of Hon. N.C. Rothschild
 (2 slides R. 906, 1031)
 [2 slides I, II]
 (Evidently bought slides from
 M. Pillischer, Optician,
 88 New Bond St., London, W.)

N 3141 MISSING

Ticks received 20.II.1905 [sic. Must be 1915, see collection dates - J.E.K.]
from Dr. John Y. Wood, Kaballa, Koinadugu District, Sierra Leone:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	3142	N	3142
		RML	112007
	<u>Rhipicephalus sanguineus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Karafaia, Sierra Leone		Karafaia (09.17 N, 10.45 W), Sierra Leone
	22.XII.1914		22.XII.1914
	J. Y. Wood		J. Y. Wood
N	3143, a-c	N	3143, b, c
		RML	112008
	(3143) <u>Boophilus australis</u> ♀'s		(3143) 45 ♀, 16 N <u>Boophilus geigy</u>
	(a) <u>Amblyomma variegatum</u> N's		(a) MISSING
	(b) <u>Rhipicephalus simus</u> ♂		(b) 1 ♂ <u>Rhipicephalus senegalensis</u>
	(c) <u>Rhipicephalus sanguineus</u> ? (large)		(c) 1 ♀ <u>Rhipicephalus sanguineus</u>
	Cattle		Cattle
	Dunkiawallia, Sierra Leone		Dunkiawallia, Sierra Leone (locality not verified)
	26.XII.1914		26.XII.1914
	J. Y. Wood		J. Y. Wood
N	3144, a	N	3144
		RML	112009
	(3144) <u>Boophilus australis</u> ♀'s		(3144) 8 ♀ <u>Boophilus geigy</u>
	(a) <u>Amblyomma variegatum</u> N's		(a) MISSING
	Sheep		Sheep
	Tengifera, Sierra Leone		Tengifera (09.38 N, 11.13 W), Sierra Leone
	24.XII.1914		24.XII.1914
	J. Y. Wood		J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N 3145, a, b

(3145) Boophilus australis ♀'s
 (a) Haemaphysalis leachi 2 ♀
 (b) Amblyomma variegatum 3 N's

Dog

Dunkiawallia, Sierra Leone

25.XII.1914

J. Y. Wood

N 3145, a

RML 112010

(3145) 4 ♀ Boophilus geigy
 (a) MISSING
 (b) MISSING

Dog

Dunkiawallia, Sierra Leone
(locality not verified)

25.XII.1914

J. Y. Wood

N 3146

Boophilus australis ♀'s

Goats

Tengifera, Sierra Leone

24.XII.1914

J. Y. Wood

N 3146

RML 112011

21 ♀ Boophilus geigy

Goats

Tengifera (09.38 N, 11.13 W),
Sierra Leone

24.XII.1914

J. Y. Wood

N 3147, a

(3147) Boophilus australis ♀'s
 (a) Rhipicephalus falcatus ♂

Cow (sick)

Kombile, Sierra Leone

23.XII.1914

J. Y. Wood

N 3147, a

RML 112012

(3147) 21 ♀ Boophilus geigy
 (a) 1 ♂ Rhipicephalus senegalensis

Cow (sick)

Kombile (09.41 N, 11.05 W),
Sierra Leone

23.XII.1914

J. Y. Wood

ORIGINAL DETERMINATION

N 3148, a

(3148) Boophilus australis ♀'s
(a) Rhipicephalus simus 2 ♂
(approaching R. falcatus)

Cow

Kombile, Sierra Leone

22.XII.1914

Dr. John Y. Wood

C.W. det. 24.II.1915

N 3149, a

(3149) Haemaphysalis leachi 5 ♂, 2 ♀
(a) Boophilus australis 1 ♂

Dog

Mabonto, Sierra Leone

10.XII.1914

Dr. John Y. Wood

C.W. det. 24.II.1915

CURRENT STATUS

N 3148, a

RML 112013

(3148) 22 ♀, 2 N Boophilus geigy
(a) 2 ♂ Rhipicephalus senegalensis

Cow

Kombile (09.41 N, 11.05 W),
Sierra Leone

22.XII.1914

Dr. John Y. Wood

N 3149

RML 112014

(3149) 4 ♂, 2 ♀ Haemaphysalis leachi
(a) MISSING

Dog

Either Mabonto (08.38 N, 12.37 W)
or (08.52 N, 11.49 W), Sierra Leone

10.XII.1914

Dr. John Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N 3150

Boophilus australis ♀'s

Cows

Tengifera, Sierra Leone

24.XII.1914

Dr. John Y. Wood

C.W. det. 24.II.1915

N 3150

RML 112015

20 ♀, 20 N Boophilus geigy

Cows

Tingifera (09.38 N, 11.13 W),
Sierra Leone

24.XII.1914

Dr. John Y. Wood

N 3151, a

(3151) Boophilus australis ♀'s
(a) Amblyomma variegatum N's, L

Cow

Dunkiawallia, Sierra Leone

25.XII.1914

Dr. John Y. Wood

C.W. det. 24.II.1915

N 3151

RML 112016

(3151) 25 ♀, 12 N Boophilus geigy
(a) MISSING

Cow

Dunkiawallia, Sierra Leone
(locality not verified)

25.XII.1914

Dr. John Y. Wood

ORIGINAL DETERMINATION

N 3152, a, b

(3152) Boophilus australis ♀'s
 (a) Amblyomma variegatum 1 ♂, 1 N
 (b) Rhipicephalus simus 1 ♀

Cattle

Karafaia, Sierra Leone

22.XII.1914

Dr. John Y. Wood

C.W. det. 24.II.1915

N 3153

Boophilus australis ♀'s

Dog

Kombile, Sierra Leone

23.XII.1914

Dr. John Y. Wood

C.W. det. 24.II.1915

CURRENT STATUS

N 3152, b

RML 112017

(3152) 25 ♀ Boophilus geigy
 (a) MISSING
 (b) 1 ♀ Rhipicephalus senegalensis

Cattle

Karafaia (09.17 N, 10.45 W),
 Sierra Leone

22.XII.1914

Dr. John Y. Wood

N 3153

RML 112018

9 ♀ Boophilus geigy

Dog

Kombile (09.41 N, 11.05 W),
 Sierra Leone

23.XII.1914

Dr. John Y. Wood

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3154, a	N	3154, a
		RML	93730, RML 102188
	(3154) <u>Haemaphysalis leachi</u> ♂'s, ♀'s		(3154) 1 ♂ <u>Haemaphysalis leachi</u> group (RML 93730)
			(3154) 2 ♀ <u>Haemaphysalis</u> sp. (RML 102188)
	(a) <u>Rhipicephalus sanguineus</u>		(a) 2 ♂, 6 ♀, 4 N <u>Rhipicephalus</u> <u>sanguineus</u> (RML 93730)
	Dog		Dog
	Karafaia, Sierra Leone		Karafaia (09.17 N, 10.45 W), Sierra Leone
	1914		1914
	Dr. John Y. Wood		Dr. John Y. Wood
	C.W. det. 24.II.1915		
N	3155	N	3155 MISSING
	<u>Ixodes canisuga</u> 1 ♀		
	<u>Passer domesticus</u> (sparrow)		
	Ingham, Statham, Norfolk, England		
	V. 1914		
	P. A. Buxton		
	C.W. det. 2.III.1915		

ORIGINAL DETERMINATION

N 3156

Amblyomma varium 1 ♀Choloepus hoffmanni (sloth)

Ancon, Panama Canal Zone

31.X.1913

Dr. S. T. Darling

C.W. det. 5.III.1915

Dr. Darling writes, 12.I.1915, it was found in sloth's cage. The ♀ measured 30 X 24 X 15 (deep) mm., weighed 5.9 grammes; began to oviposit 12.XI.1913 & laid on 13, 14, 16, 17, 18, 19, 20, 21, 24, 26th a total (actual count) of 9759 eggs. 25 fresh (24 hrs. old) eggs weighed 2.25 milligrammes; average egg weighed 0.09 milligrammes. On 2.XII.1913 all the eggs weighed 0.9827 grammes (evidently losing moisture). ♀ died 29.XI.1913 her weight on 2.XII = 2.76 grammes. All eggs shrivelled by 17.III.1914. These notes made by L. H. Dunn, Darling's assistant. The sloth's blood contained Endotrypanum schaudinni.
G.H.F.N.

CURRENT STATUS

N 3156

RML 112019

1 ♀ Amblyomma variumCholoepus hoffmanni

Ancon (08.58 N, 79.33 W), Panama

31.X.1913

Dr. S. T. Darling

Cited: Robinson (1926: 209)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3157, a	N	3157, a MISSING
	(3157) <u>Rhipicephalus evertsi</u> 3 ♂'s		
	(a) <u>Boophilus decoloratus</u> 1 ♂		
	Zebra		
	Not stated		
	Gift of Hon. N.C. Rothschild (1908)		
	[Mounted on slides in balsam I-IV]		
	(R 1026-1029)		
	(3157) C.W. det. 18.III.1915		
	(a) C.W. & G.H.F.N. det. 1915.		
N	3158	N	3158 MISSING
	<u>Rhipicephalus haemaphysaloides</u> 1 ♀		
	India		
	Gift of Hon. N.C. Rothschild (1908)		
	(Prep bought from Fred'k. Enock)		
	[Mounted on slide in glycerin] (R. 907)		
N	3159	N	3159 MISSING
	<u>Argas reflexus</u> 3 N's		
	India		
	Gift of Hon. N.C. Rothschild (1908)		
	(3 slides No.s 908-910)		
	Fred'k. Enoch prep., cost		
	2 shillings each!		
	G.H.F.N. det. III.1915.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3160

N 3160

RML 112020

Dermacentor reticulatus 2 ♂, 1 ♀, 1 N1 ♂, 1 ♀, 1 N Dermacentor reticulatus

Revelstoke

Stoke Point (50.18 N, 04.01 W),
England

III.1902

III.1902

Gift of Hon. N.C. Rothschild
(tube No. 238)Gift of Hon. N.C. Rothschild
(tube No. 238)

G.H.F.N. & C.W. det. III.1915.

N 3161

N 3161

RML 112021

Amblyomma testudinarium 2 ♂, 2 ♀1 ♂, 2 ♀ Amblyomma testudinarium

Buffalo

Subalus bubalis

Buitenzorg, Java

Bogor (06.35 S, 106.47 E),
Java, Indonesia

1914

1914

Gift of Dr. de Blieck

Gift of Dr. de Blieck

(His No. 7 of which 2 ♂ returned)

L.E.R. det. 1915.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3162

Ornithodoros talaje 2 spec's.

Fowls

Villavalencio, Strato Valley,
Colombia, C. America

26.XI.1914

Gift of Wellcome Bur. Sci.
23.IV.1915

"W. 23"

C.W. det. 28.IV.1915.

N 3163

Rhipicephalus simus ♂ & ♀

Cattle

Ibadan, S. Nigeria

27.III.1915

Gift of Wellcome Bur. Sci.
23.IV.1915

"W. 29."

C.W. det. 28.IV.1915.

N 3162

RML 112022

1 ♂, 1 ♀ Ornithodoros talaje

Fowls

Villavalencio, Strato Valley,
Colombia (locality not verified)

26.XI.1914

Gift of Wellcome Bureau of Science
23.IV.1915

N 3163

RML 112023

1 ♂, 1 ♀ Rhipicephalus senegalensis

Cattle

Probably Ibadan (07.17 N, 3.30 E)
Nigeria (However 6 other populated
places in Nigeria named Ibadan)

27.III.1915

Gift of Wellcome Bureau of Science
23.IV.1915

ORIGINAL DETERMINATIONCURRENT STATUS

N 3164

N 3164 MISSING

Boophilus australis ♂'s, ♀'s

Cattle

Fray Bentos, Uruguay, S. America

Sent me 27.III.1914

Dr. Breitung

C.W. det. 28.IV.1915.

N 3165

N 3165 MISSING

Argas reflexus 2

Valdeatorfa, Teruel, Spain

Rec'd. 14.V.1915

Rev. Longin Navás, S.J. of
Colegio del Salvador,
Saragossa, Spain

G.H.F.N. det. 14.V.1915

Rec'd. alive Slide

ORIGINAL DETERMINATIONCURRENT STATUS

N 3166

Hyalomma aegyptium ♂, ♀'s

Roan antelope

Shot near Kontagora, N. Nigeria

V.1914

Dr. W. B. Johnson
(Hillside, Seaton, Devon)

G.H.F.N. det. 20.V.1915

Note ♂'s differ somewhat from
typical specs.

N 3166

RML 112024

5 ♂, 1 ♀ Hyalomma truncatum

Hippotragus equinus

Shot near Kontagora, (09.06 N,
08.31 E) or (10.24 N, 05.29 E),
Nigeria

V.1914

Dr. W. B. Johnson
(Hillside, Seaton, Devon)

N 3167, a

(3167) Rhipicephalus simus ♂'s, ♀'s

(a) Hyalomma aegyptium 1 ♂

Wart-hog

Shot near Zungeru, N. Nigeria

VI.1914

Dr. W. B. Johnson
(Hillside, Seaton, Devon)

C.W. det. 20.V.1915.

N 3167, a

RML 105658

(3167) 8 ♂, 6 ♀ Rhipicephalus longus
(3167) 1 ♂ Rhipicephalus lunulatus
(3167) 2 ♂, 3 ♀ Rhipicephalus
senegalensis
(3167) 1 ♂ Rhipicephalus simus group
(a) 1 ♂ Hyalomma truncatum

Phacochoerus aethiopicus

Shot near Zungeru (09.48 N,
06.09 E), Nigeria

VI.1914

Dr. W. B. Johnson
(Hillside, Seaton, Devon)

The 1 ♂ Rhipicephalus simus group
specimen is the R. planus of some
authors or a runt R. planus
complanatus.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3168	N	3168 MISSING
	<u>Amblyomma variegatum</u> larvae (gorged)		
	Cat		
	Gondar, Abyssinia		
	XII.1914		
	Mr. C. H. Armbruster (Intelligence Dept., War Office, Cairo, Egypt)		
	Rec'd. 8.VII.1915		
	C.W. det. 8.VII.1915.		
N	3169	N	3169 MISSING
	<u>Amblyomma variegatum</u> larvae (unfed)		
	Man		
	Gondar, Abyssinia		
	XII.1914		
	Mr. C.H. Armbruster (Intelligence Dept., War Office, Cairo, Egypt)		
	Rec'd. 8.VII.1915		
	C.W. det. 8.VII.1915.		
N	3170	N	3170
		RML	112025
	<u>Rhipicephalus simus</u> 1 ♀		1 ♀ <u>Rhipicephalus simus</u>
	Host ?		Host ?
	Gondar, Abyssinia		Gondar (12.34 N, 37.36 E), Ethiopia
	?.XII.1914		?.XII.1914
	Mr. C.H. Armbruster (Intelligence Dept., War Office, Cairo, Egypt)		Mr. C.H. Armbruster
	Rec'd. 8.VII.1915		
	C.W. det. 8.VII.1915.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3171	N	3171
		RML	70967
	(3171) <u>Rhipicephalus haemaphysaloides</u> 3 ♂, 3 ♀		(3171) 2 ♂, 1 ♀ <u>Rhipicephalus haemaphysaloides</u>
	(a) <u>Haemaphysalis montgomeryi</u> 2 ♀ (atypical)		(a) 2 ♀ <u>Haemaphysalis sundrai</u>
	<u>Cervulus muntjac</u>		<u>Muntiacus muntjac</u>
	Peshok, Darjiling District, E. Himalayas (2500-3500 ft. elev.)		Pashok (27.04 N, 88.23 E), Darjeeling District, West Dinajpur, India (762-1067 m)
	30.IV.1915		30.IV.1915
	R. S. Lister		R. S. Lister
	ex Ind. Mus. $\frac{2344}{17}$ & $\frac{2344}{17}$ ^a		(3171a) retained in collection of Dr. H. Hoogstraal, NAMRU-3, Cairo, Egypt.
	C.W. det. VII.1915		
	Received from Indian Museum Calcutta per F.H. Gravely.		
N	3172	N	3172
		RML	112026
	<u>Haemaphysalis bispinosa</u> 3 ♂, 3 ♀, 1 N		3 ♂, 3 ♀, 1 N <u>Haemaphysalis bispinosa</u>
	Dog		Dog
	Paksey, Pubna District, Bengal		Pa ksey, Pubna District, Bengal, India (locality not verified)
	3.III.1915		3.III.1915
	C. Paiva		C. Paiva
	Ind. Mus. No. $\frac{2347}{17}$		
	C.W. det. VII.1915.		

ORIGINAL DETERMINATION

N 3173

Argas vespertilionis 2 larvae
Nycticejus kuhlii (bat)
 Lahore, Punjab
 I.1915
 Baini Barshud
 Ind. Mus. No. $\frac{2350}{17}$
 C.W. & G.H.F.N. det. VII.1915.

N 3174

Hyalomma aegyptium ? 1 N
Vidua principalis
 (a small bird, off its head)
 Accra, W. Africa
 27.III.1915
 Dr. J.W.S. Macfie
 Imp. Bur. Ent. No. 927.
 C.W. & G.H.F.N. det. VII.1915.

CURRENT STATUS

N 3173

RML 112027

2 L Argas vespertilionis
Scotophilus temmincki
 Lahore (31.35 N, 74.18 E), Pakistan
 I.1915
 Baini Barshud

N 3174

RML 112028

1 N Hyalomma sp.
Vidua sp.
 Accra (05.33 N, 00.13 W), Ghana
 27.III.1915
 Dr. J.W.S. Macfie

ORIGINAL DETERMINATIONCURRENT STATUS

N 3175

N 3175

RML 105641

Rhipicephalus sanguineus ♂, ♀, N3 ♂, 1 ♀ Rhipicephalus sanguineus
2 N Hyalomma sp.

Wild rabbit

Rabbit, wild

Accra, W. Africa

Accra (05.33 N, 00.13 W), Ghana

26.I.1915

26.I.1915

Dr. J.W.S. Macfie

Dr. J.W.S. Macfie

Imp. Bur. Ent. NO. 928

C.W. & G.H.F.N. det. VII.1915.

N 3176

N 3176 MISSING

Boophilus australis ♂, ♀, N

Cow (dead of anthrax, from inside ear)

British Guiana

IV.1913

G. E. Bodkin

Imp. Bur. Ent. No. 930

C.W. & G.H.F.N. det. VII.1915.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3177	N	3177
		RML	112029
	<u>Rhipicephalus simus</u> or <u>falcatus</u>		2 N <u>Rhipicephalus</u> sp.
	Cattle		Cattle
	Marimba District, Nyasaland		Marimba District, Malawi (locality not verified)
	VII.1912		VII.1912
	J. G. Morgan, M.O.		J. G. Morgan, M.O.
	Impt. Bur. Ent. No. 931.		
	C.W. & G.H.F.N. det. VII.1915.		
N	3178	N	3178
		RML	112030
	<u>Ixodes auritulus</u> 1 ♀		1 ♀ <u>Ixodes auritulus</u>
	<u>Haliaeetus leucocephalus alascanus</u> (eagle)		<u>Haliaeetus leucocephalus</u>
	Masset, Queen Charlotte Islands, B.C., Canada		Masset (54.01 N, 132.09 W), Queen Charlotte Islands, British Columbia, Canada
	17.VI.1910		17.VI.1910
	E.M. Anderson (Assistant Curator, Provincial Museum)		E.M. Anderson (Assistant Curator, Provincial Museum)
	Gift of S. Hadwen		Cited & figured: Nuttall (1916: 313, 314).
	G.H.F.N. det. I figured this ♀ [leg 4 of ♀ mounted on slide]		Slide missing.
	Sent by Dr. S. Hadwen 25.III.1911, labelled by him " <u>I. rutherfordi</u> n. sp." (Ms).		

ORIGINAL DETERMINATIONCURRENT STATUS

N

3175

N

3179

RML

112031

Ixodes auritulus 1 N, L's TYPES1 N, 1 L Ixodes auritulusCyanocitta stelleri carlotae (jay)Cyanocitta stelleriMasset, Queen Charlotte Islands,
B.C., CanadaMasset (54.01 N, 132.09 W), Queen
Charlotte Islands, British Columbia
Canada

23.VI.1910

23.VI.1910

E. M. Anderson (Assistant Curator,
Provincial Museum)E. M. Anderson (Assistant Curator,
Provincial Museum)

Gift of S. Hadwen

Nuttall: (1916: 313, 314), first
description and figures of the
immature stages.

N

3180

N

3180

RML

112032

Ixodes dentatus var. spinipalpis1 ♀ Ixodes spinipalpis Lectotype of
I. dentatus spinipalpisLepus americanusLepus americanus

Mt. Lehman, B.C., Canada

Mount Lehman (94.07 N, 122.23 W),
British Columbia, Canada

1.IX.1910

1.IX.1910

Dr. S. Hadwen

Dr. S. Hadwen

Sent by Dr. S. Hadwen 25.III.1911,
labelled by him "I. dentatus
var. spinipalpis n. var."Hadwen & Nuttall in Nuttall (1916:
301) original description. Keirans
& Clifford (1978: 143) incorrectly
cited this specimen as the holotype.
Lectotype designated: Keirans &
Brewster (1981: 165).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3181

Ixodes dentatus var. spinipalpis
Hadwen & Nuttall 1915

1 N child
1 N Lepus americanus
4 L Lepus americanus

Mt. Lehman, B.C., Canada

5.III.1910

Dr. S. Hadwen

[1 L mounted by me in balsam]

N 3181

RML 112033

2 N, 4 L Ixodes spinipalpis
Paralectotypes of I. dentatus
spinipalpis

1 N ex Homo sapiens
1 N, 4 L ex Lepus americanus

Mount Lehman (49.07 N, 122.23 W)
British Columbia, Canada

5.III.1910

Dr. S. Hadwen

Hadwen & Nuttall in Nuttall (1916: 301) original description. Cited: Keirans & Clifford (1978: 143). The original collection data by Hadwen & Nuttall (1916: 304) listed one nymph from Sciurus hudsonicus. This specimen could not be found and is probably an erroneous listing. Paralectotypes designated: Keirans & Brewster (1981: 165).

N 3182

Ixodes hexagonus 1 ♀
Ovipositing, rec'd. alive

Probably dog, found on steps
of porch

Fryern, Pulborough, W. Sussex,
England

ca. 28.VII.1915

Edward King

G.H.F.N. det.

Rec'd. from P. Anderson Grahame,
Editor of "Country Life"
20 Tavistock St., Covent Garden,
London, W.D. Reported 31.VII.1915.

N 3182

ORIGINAL DETERMINATIONCURRENT STATUS

N	3183	N	3183 MISSING
	<u>Ixodes ricinus</u> 1 ♂, 1 ♀		
	Shepherd dog		
	Wastwater, Cumberland, England		
	2.IX.1915		
	G.H.F. Nuttall		
	G.H.F.N. det. 5.IX.1915		
N	3184	N	3184 MISSING
	<u>Ixodes ricinus</u> 2 L		
	Off my hand (sheep & dogs about)		
	Buttermore, Cumberland, England		
	17.VIII.1915, 28.VIII.1915		
	G.H.F. Nuttall		
	G.H.F.N. det. 5.IX.1915		
N	3185	N	3185
		RML	112182
	<u>Dermacentor auratus</u> 1 ♂		1 ♂ <u>Dermacentor auratus</u>
	Collector		<u>Homo sapiens</u>
	Doi Sutep, Siam (2500 ft. elev.)		Ban Bon Doi Suthep (18.48 N, 98.55 E), Chiang Mai, Thailand (762 m.)
	17.V.1914		17.V.1914
	Dr. A.F.G. Kerr, Chiengmai, Siam		Dr. A.F.G. Kerr, Chiang Mai, Thailand
	G.H.F.N. & C.W. det. 21.IX.1915		
	Posted 22.VII.1915, rec'd. 11.IX.1915, all taken in neighborhood of Chiengmai.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3186	N	3186 MISSING
	<u>Dermacentor auratus</u>		
	Doi Sutep, Siam 1200 metres		
	25.X.1914		
	Dr. A.F.G. Kerr, Chiangmai, Siam		
	G.H.F.N. & C.W. det. 21.IX.1915.		
N	3187, a	N	3187, a
	(3187) <u>Dermacentor auratus</u> 1 ♀ (unfed)	RML	84499
	Collector		(3187) 1 ♀ <u>Dermacentor auratus</u> (a) 1 ♂ <u>Haemaphysalis darjeeling</u>
	Chungianen, Siam		<u>Homo sapiens</u>
	1915		Chunginen, Chiang Mai, Thailand (locality not verified)
	Dr. A.F.G. Kerr, Chiangmai, Siam		1915
	G.H.F.N. & C.W. det. 21.IX.1915.		Dr. A.F.G. Kerr, Chiang Mai, Thailand
N	3188	N	3188
	<u>Haemaphysalis hystricis</u> 1 ♀	RML	84345
	Collector		1 ♀ <u>Haemaphysalis hystricis</u> 1 ♂ <u>Haemaphysalis koningsbergeri</u>
	Doi Sutep, Siam 3000 ft.		<u>Homo sapiens</u>
	21.VI.1914		Ban Bon Doi Suthep (18.48 N, 98.55 E), Chiang Mai, Thailand (914 m.)
	Dr. A.F.G. Kerr, Chiangmai, Siam		21.VI.1914
	G.H.F.N. & C.W. det. 21.IX.1915.		Dr. A.F.G. Kerr, Chiang Mai, Thailand

ORIGINAL DETERMINATIONCURRENT STATUS

N 3189

Haemaphysalis leachi koningsbergeri
4 ♂

Felis nebulosa

Muar, Johore

I.1914

? sent by C. Strickland

G.H.F.N. & C.W. det. 21.IX.1915.

N 3190

Ixodes ricinus 1 ♀

Lepus variabilis (Mountain hare)

Tarvie, Pitlochry, N.B., Scotland

21.IX.1915

P. A. Buxton

G.H.F.N. rec'd. & det. 25.IX.1915.

N 3191

Amblyomma lepidum 1 ♂

Cattle

Egypt

? 1915

Dr. L. H. Gough

Imp. Bur. Ent. No. 935

G.H.F.N. det. 22.IX.1915.

N 3189

RML 112183

3 ♂ Haemaphysalis koningsbergeri

Neofelis nebulosa

Muar (02.02 N, 102.34 E),
Johor, Malaysia

I.1914

? sent by C. Strickland

N 3190 MISSING

N 3191

RML 112184

1 ♂ Amblyomma lepidum

Cattle

Egypt

? 1915

Dr. L. H. Gough

ORIGINAL DETERMINATIONCURRENT STATUS

N 3192

N 3192 MISSING

Ixodes rarus 3 ♂, 6 ♀
(1 pair in copula)

Leopard

Near Chininda, S. Rhodesia (3800 ft.)

26.XII.1909

C. F. Swynnerton

Imp. Bur. Ent. No. 932.

Mounted dry on 3 slides

G.H.F.N. det. 22.IX.1915.

N 3193

N 3193

RML 112185

Ixodes granulatus 1 ♀1 ♀ Ixodes granulatusEpimys rufescensRattus rattus rufescens

Peshok, Darjeeling District, India

Pashok (27.04 N, 88.23 E),
West Dinajpur, India

R. S. Lister

R. S. Lister

Ind. Mus. No. $\frac{2345}{17}$ Cited: Nuttall (1916: 316);
Sharif (1928: 237).

2 other ♀'s returned

G.H.F.N. det. 4.X.1915.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3194

Ixodes victoriensis
Nuttall 1915 1 ♀ TYPE!

Wombat

Victoria, Australia

X.1892

Sent by Dr. G. Sweet of Melbourne

(returning 1 ♀ Sweet 236a)

N 3194

RML 112186

1 ♀ Ixodes victoriensis
Lectotype

Doubtless Vombatus ursinus

Victoria, Australia

X.1892

Sent by Dr. G. Sweet of Melbourne

Nuttall (1915: 297) original
description. He stated the host
was doubtless Phascolomys mitchelli
[=V. ursinus]. Lectotype designated:
Keirans & Brewster (1981: 168).

N 3195

Aponomma p[-----]s
Robinson 1915 2 ♂, 8 ♀, 2 N
CO-TYPES

Wombat

5.III.1911

Sent by Dr. Sweet = Sweet 3
rest to return

N 3195

RML 112187

1 ♂, 8 ♀, 1 N Aponomma auruginans

Vombatus ursinus or Lasiiorhinus sp

5.III.1911

Sent by Dr. Georgina Sweet

Robinson's species name not re-
corded here because its publication
would constitute a nomen nudum.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3196

N 3196

RML 112188

Aponomma p[-----]s 1 ♂, 1 ♀
CO-TYPES

1 ♂, 1 ♀ Aponomma auruginans

Wombat

Vombatus ursinus or Lasiorhinus spp.

Zool. Gardens, Melbourne,
Victoria, Australia

Zoological Gardens, Melbourne
(37.49 S, 144.58 E), Victoria,
Australia

X.1892

X.1892

Sent by Dr. Sweet = Sweet 5
rest to return

Sent by Dr. Georgina Sweet

Robinson's species name not
recorded here because its
publication would constitute
a nomen nudum.

N 3197

N 3197

RML 112189

Aponomma p[-----]s 2 ♀ gorged

2♀Aponomma auruginans

Wombat

Vombatus ursinus or Lasiorhinus sp.

Melbourne, Victoria, Australia

Melbourne (37.49 S, 144.58 E),
Australia

X.1892

X.1892

Sent by Dr. Sweet = Sweet 236
rest to return

Sent by Dr. Georgina Sweet

Robinson's species name not
recorded here because its
publication would constitute
a nomen nudum.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3198

Ixodes tasmani 1 ♀

Dasyurus maculatus

Zool. Gardens, Melbourne,
Victoria, Australia

11.VIII.1910

Dr. Stapley

Sent by Dr. G. Sweet = Sweet 325

G.H.F.N. det. & fig'd.

N 3199

Aponomma gervaisi 5 ♂

Uromastix hardwickii

Origin India. In Zool. Soc.
Gard's., London

X.1915

Prof. Plimmer, F.R.S.

Nutt. & Warb. det. 5.X.1915

10 ♂ returned with report.

= Z.S. 41.

N 3198

RML 112190

1 ♀ Ixodes tasmani

Dasyurus maculatus

Zoological Gardens, Melbourne
(37.49 S, 144.58 E), Victoria,
Australia

11.VIII.1910

Dr. Stapley

Cited & figured: Nuttall (1916: 323)
who gave the collection date
as 11.VII.1910.

N 3199

RML 112191

5 ♂ Aponomma gervaisi

Uromastix hardwickii

Origin India. In Zoological Society
Gardens, London (51.30 N, 00.07 W),
England

X.1915

Prof. Plimmer, F.R.S.

ORIGINAL DETERMINATION

N 3200

Ixodes oldi 2 ♀

Leopard

Near Chirinda, S. Rhodesia
3800 ft.

26.XII.1909

C.F.M. Swynnerton

G.H.F.N. det. 11.X.1915.
Imp. Bur. Ent. No. 932CCURRENT STATUS

N 3200

RML 112192

2 ♀ Ixodes sp.Panthera pardusPerhaps Chirinda hill (20.05 S,
31.28 E), Zimbabwe (1158 m.)

26.XII.1909

C.F.M. Swynnerton

Mutilated specimens
Cited: Nuttall (1916: 329).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3201

Dermacentor sp. 11 ♂'s, 11 ♀'s,
unfed

On grass

Estere1 Mts., Cannes, S. France
(South African Hospital, France)

Rec'd. 25.X.1915

Dr. H. Bayon

C.W. det. 28.X.1915

N 3201

RML 112193

9 ♂, 9 ♀ Dermacentor niveus

On grass

Estere1 Mts. (43.30 N, 06.50 E),
Cannes, France

Rec'd. 25.X.1915

Dr. H. Bayon

1 ♂, 1 ♀ of above total mounted
on a slide.

N 3202, a

(3202) Hyalomma aegyptium 2 ♂
(a) Rhipicephalus sanguineus 3 N

Rabbit

Estere1 Mts., Cannes, S. France
(South African Hospital, France)

Rec'd. 25.X.1915

Dr. H. Bayon

C.W. det. 28.X.1915.

N 3202, a

RML 112194

(3202) 2 ♂ Hyalomma marginatum
(a) 3 N Rhipicephalus sanguineus

Rabbit

Estere1 Mts. (43.30 N, 06.50 E),
Cannes, France

Rec'd. 25.X.1915

Dr. H. Bayon

ORIGINAL DETERMINATIONCURRENT STATUS

N 3203

N 3203

RML 112195

Aponomma gervaisi var. lucasi 1 ♂1 ♂ Aponomma varanensisFound in tube with termites (Termes carbonarius Hazen) in a nestFound in tube with termites, Macrotermes carbonarius (Hagen), in a nest.

Kampong, Jahor, Malay Peninsula

? Kampong ? perhaps state of Johor (02.00 N, 103.30 E), Malaysia

19.XI.1901

19.XI.1901

Skeat Expedition (presented by Hugh Scott, M.A., Cambridge XI.1915).

Skeat Expedition (presented by Hugh Scott, M.A., Cambridge XI.1915).

G.H.F.N. det. 2.XI.1915

N.B.: - lizards feed on termites which would explain ticks presence.
G.H.F.N.

N 3204

N 3204 MISSING

Amblyomma variegatum ♂'s, ♀'s

On skin of cow (& then preserved)

South Nigeria

22.VII.1910

Dr. J. G. Copland

G.H.F.N. det. for I. Bureau of Entomol. = E. 421.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3205	N	3205	MISSING
	<u>Ixodes ricinus</u> 5 N			
	From nose of sheep			
	Llwyngwinan, Cardiganshire, Wales			
	15.VI.1915			
	Prof. C. W. Walton, (Zool. Dept. Univ. of Wales, Aberystwyth)			
	G.H.F.N. & C.W. det.			
N	3206	N	3206	MISSING
	<u>Ixodes ricinus</u> 2 ♀			
	Cat			
	Crosswood, Llwyngwinan, Cardiganshire, Wales			
	24.V.1915			
	Prof. C. W. Walton (Zool. Dept. Univ. of Wales, Aberystwyth)			
	G.H.F.N. & C.W. det.			
N	3207	N	3207	MISSING
	<u>Ixodes ricinus</u> 5 N			
	Squirrel			
	Brought in from Goginnan Cardiganshire to Aberystwyth			
	VI.1915			
	Messrs. Hutchings, taxidermists, Aberystwyth (gift of C.W. Walton)			
	G.H.F.N. & C.W. det.			

ORIGINAL DETERMINATIONCURRENT STATUS

N 3208

N 3208 MISSING

Ixodes ricinus 1 ♀

Ear of ewe

Llwyngwinan, Cardiganshire, Wales

15.VI.1915

Prof. C. W. Walton

G.H.F.N. & C.W. det.

N 3209

N 3209 MISSING

Ixodes hexagonus 1 ♂!Found attached to ear of badger,
Meles taxusRec'd from Llanrhystyd,
Cardiganshire, Wales

VI.?.1915

Messrs. Hutchings, taxidermists,
Aberystwyth
(Gift of C.W. Walton)

G.H.F.N. & C.W. det.

N 3210

N 3210

RML 112196

Amblyomma variegatum 2 ♂2 ♂ Amblyomma variegatum

Host ?

Host ?

Namasagali, Uganda

Namasagali (01.01 N, 32.57 E), Uganda

1915

1915

Commander H. Hutchinson

Commander H. Hutchinson

Imp. Bur. Ent. 949, 950
G.H.F.N. det. 19.XI.1915.

Pinned specimens

(pinned spec's.).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3211

Amblyomma cohaerens 3 ♂, 2 ♀

Elephant

Chagwe, Uganda

24.VII.1915

Mr. C. C. Gowdey

Imp. Bur. Ent. E. 951.

G.H.F.N. det. 19.XI.1915.

N 3211

RML 112197

3 ♂, 2 ♀ Amblyomma cohaerensLoxodonta africana

Chagwe, Uganda (locality not verified).

24.VII.1915

Mr. C. C. Gowdey

Cited: Robinson (1926: 110).

N 3212, a

(3212) Dermacentor nitens 2 ♂, 2 ♀
(a) Amblyomma maculatum 1 ♀

Cattle

Guayaquil, Ecuador

1915

Dr. Espiroso - Tamaye

Rec'd. 1.XII.1915 from Prof. B. Galli Valerio, Univ. of Lausanne in a tube labelled "garrapatas"

G.H.F.N. & C.W. det. 2.XII.1914. Reported 2.XII.1915 & asked for particulars.

N 3212, a

RML 112198

(3212) 2 ♂, 2 ♀ Anocentor nitens
(a) 1 ♀ Amblyomma triste

Cattle

Guayaquil (02.10 S, 79.50 W), Ecuador

1915

Dr. Espiroso - Tamaye

ORIGINAL DETERMINATIONCURRENT STATUS

N 3213

N 3213

RML 112199

Dermacentor reticulatus var. niveus
CO-TYPE 1 ♂, 1 ♀

1 ♂, 1 ♀ Dermacentor niveus
SYNTYPES

Sheep

Sheep

10 leagues from Teheran, Persia

48.3 km. from Teheran (35.40 N,
51.26 E), Iran

Tholozan coll. Gift of Paris
Mus. 11.XII.1915

Tholozan coll. Gift of Paris
Mus. 11.XII.1915

No. 19.

Neumann (1897: 365) original
description.

N 3214

N 3214

RML 112200

Dermacentor nitens 2 ♂, 3 ♀, 2 N1 ♂, 4 ♀, 2 N Anocentor nitens

Mules

Mules

Grenada, W. Indies

Grenada (12.07 N, 61.40 W),
British Lesser Antilles

Rec'd. 27.I.1916

Rec'd. 27.I.1916

? Gift of Wellcome Bur. Sci.
(per M. E. MacGregor)

? Gift of Wellcome Bur. Sci.
(per M. E. MacGregor)

G.H.F.N. & C.W. det. 27.I.1916.
Reported 28.I.1916 to M.E. MacGregor
& rest of lot returned.

ORIGINAL DETERMINATIONCURRENT STATUS

- N 3215a-i
- (a) Rhipicephalus pulchellus ♂'s, ♀'s
 (b) Rhipicephalus evertsi 3 ♂
 (c) Rhipicephalus maculatus 10 ♂, 3 ♀
 (d) Rhipicephalus neavei 1 ♂, 1 ♀
 (e) Amblyomma gemma 4 ♂, 2 ♀
 (f) Amblyomma marmoreum 4 ♂
 (g) Amblyomma petersi 1 ♀
 (h) Amblyomma variegatum 5 ♂
 (i) Dermacentor rhinocerotis 1 ♂

(a) Eland antelope
 (g, i) Rhinoceros
 (b,c,d,e,f,h) Unknown

Mombasa or Makindu, B.E. Africa

Rec'd. 22.I.1916

Sent by Dr. J. O. Shircore
 Mombasa (collected by himself
 or friends)

(a,b,e,f,g,h,i) G.H.F.N. det.
 (c) G.H.F.N. & C.W. det.
 (d) C.W. det.

3215c N.B. especially good for
 variation.

- N 3215a-g, i
- RML 66590
- (a) 79 ♂, 49 ♀ Rhipicephalus pulchellus
 (b) 3 ♂ Rhipicephalus evertsi
 (c) 11 ♂, 3 ♀ Rhipicephalus maculatus
 (d) 1 ♂, 1 ♀ Rhipicephalus pravus
 (e) 4 ♂, 2 ♀ Amblyomma gemma
 (f) 3 ♂ Amblyomma sparsum
 (g) 1 ♀ Amblyomma rhinocerotis
 (h) MISSING
 (i) 1 ♂ Dermacentor rhinocerinus

(a) Taurotragus oryx
 (g, i) Diceros bicornis
 (b,c,d,e,f,h) Unknown

Mombasa (04.03 S, 39.40 E) or
 Makindu (02.17 S, 37.49 E), Kenya

Rec'd. 22.I.1916

Sent by Dr. J. O. Shircore
 Mombasa (collected by himself
 or friends)

(3215e) Robinson (1926: 122) stated
 the specimens of A. gemma
 were from an eland.
 (f) cited: Theiler & Salisbury
 (1958: 112) who spelled the
 collector's name Shircow.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3216

Ornithodoros moubata 4 N's

Warthog's hole

Monkey Bay, Nyasaland

27.VIII.1915

Dr. W. A. Lamborn

G.H.F.N. & C.W. det.

Reported 15.III.1916 to Ent. Bur.
There were 64 specimens in the
original lot. = E 956-7.

N 3216

RML 112201

4 N Ornithodoros moubataBurrow of Phacochoerus aethiopicus

Monkey Bay (14.05 S, 34.55 E), Malawi

27.VIII.1915

Dr. W. A. Lamborn

N 3217

Dermacentor niveus 2 ♂, 2 ♀

Maremma, Toscana, Italy

Rec'd. 1916

From Prof. Dr. Guido Paoli,
Florence

G.H.F.N. & C.W. det.

Sender Prof. Dr. Guido Paoli,
Inspettore per le Malattie delle
Piante, R. Storzione di
Entomologia Agraria, Via Romana 19,
Firenze, Italy.

N 3217

RML 112202

2 ♂, 2 ♀ Dermacentor niveusMaremma Region (42.30 N, 11.30 E),
Italy

Rec'd. 1916

From Prof. Dr. Guido Paoli,
Florence

Guido Paoli (1881-1947) noted
phytopathologist of Genoa, Italy

ORIGINAL DETERMINATIONCURRENT STATUS

N 3218
Haemaphysalis birmaniae 6 ♂
 Porcupine
 Naksiyidiniya, S.P., India
 2.V.1913
 Major E. W. Mayor
 G.H.F.N. & C.W. det. 31.I.1916;
 gift of Brit. Mus.
 Reported 31.I.1916 vide
 Rep. Bk. p. 181.

N 3219
Haemaphysalis pammata 1 ♂, 3 ♀
 Bush buck
 Nyeri District, Brit. E. Africa
 17.VIII.1914
 W. J. Street
 G.H.F.N. & C.W. det. 31.I.1916;
 gift of Brit. Mus.
 Reported 31.I.1916 vide
 Rep. Bk. p. 181.

N 3218 MISSING

N 3219
 RML 69934, RML 72605
 1 ♀ Haemaphysalis aciculifer
 (RML 69934)
 1 ♂, 1 ♀ Haemaphysalis pammata
 (RML 72605)
Tragelaphus scriptus
 Nyeri District (00.25 S, 27.00 E),
 Central Region, Kenya
 17.VIII.1914
 W. J. Street

ORIGINAL DETERMINATIONCURRENT STATUS

N 3220

Haemaphysalis cuspidata 2 ♂, 4 N

Mouse deer

Cheddi Kulam, N.P., India

17.XI.1913

Major E. W. Mayor

G.H.F.N. & C.W. det. 31.I.1916;
gift of Brit. Mus.Reported 31.I.1916 vide
Rep. Bk. p. 181.

N 3220

RML 112203

2 ♂, 2 N Haemaphysalis cuspidataTragulus meminnaCheddi Kulam, N.P., India (locality
not verified)

17.XI.1913

Major E. W. Mayor

Note in vial "1 ♂, 1 N-M. Sharif"

N 3221

Haemaphysalis parva 2 ♂

Tame rabbit

Colombo, Ceylon

1.X.1914

G.H.F.N. & C.W. det. 31.I.1916;
gift of Brit. Mus.

N 3221

RML 76101

2 ♂ Haemaphysalis intermedia

Rabbit, tame

Colombo (06.56 N, 79.51 E), Sri Lanka

1.X.1914

ORIGINAL DETERMINATIONCURRENT STATUS

N 3222

N 3222

RML 112204

Haemaphysalis bancrofti 2 ♀1 ♀ Haemaphysalis bancrofti

Wild pig

Sus scrofa

Cape York, Queensland

Cape York (10.43 S, 142.28 E),
Queensland, Australia

VII.1912

VII.1912

R. Kemp

R. Kemp

G.H.F.N. & C.W. det. 31.I.1916;
gift of Brit. Mus.

Note in vial "1 ♀ found 1933"

N 3223

N 3223

RML 112205

Haemaphysalis bancrofti 1 ♂1 ♂ Haemaphysalis bancroftiCanis familiarisCanis familiaris

Kelsey Creek, N. Queensland

Kelsey Creek (20.26 S, 148.27 E),
Queensland, Australia

1911

1911

A. Fontaine

A. Fontaine

G.H.F.N. & C.W. det. 31.I.1916;
gift of Brit. Mus.This specimen undoubtedly came from
the Rothschild tick collection
donated to the British Museum
(Nat. Hist.). See collection K 60 in
Keirans (1982:25)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3224

N 3224 MISSING

Ixodes tenuirostris 1 N, 1 LArvicola nivalisMayens di Van, Vallei de Salvan,
Canton du Valais, Switzerland

VII.1914

Prof. B. Galli - Valerio

[On 2 slides in balsam]

G.H.F.N. det. 13.IV.1916; gift of
Prof. B. Galli-Valerio, Univ.
of Lausanne.Reported 14.IV.1916 returning
9 slides containing 1 ♀, 1 N, 7 L
from same source and 1 L from
Hypudaeus glareolus, Cesy,
near Lausanne, Switzerland, ca. 1914.

N 3225

N 3225 MISSING

Dermacentor occidentalis, 3 ♂, 1 ♀
unfed

Captured on collector's clothes

Foot Hills behind Santa Barbara,
California

14.III.1916

Mrs. Zelia Nuttall

[on 2 slides dry in cells]

C.W. & G.H.F.N. det. 13.IV.1916.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3226	N	3226
		RML	101313
	<u>Hyalomma aegyptium</u> ♂, ♀		1 ♂, 7 ♀ <u>Hyalomma lusitanicum</u> 1 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Fuerteventura Isl. & Teneriffe		Isla de Fuerteventura (28.20 N, 12.00 W) & Isla de Tenerife (28.19 N, 16.34 W), Canary Islands
	Sent 25.V.1916		Sent 25.V.1916
	Dr. Geo. V. Perez		Dr. Geo. V. Perez
	C.W. & G.H.F.N. det. VI.1916.		An additional 1 ♂, 2 ♀ <u>H. lusitanicum</u> are in the collection of Dr. H. Hoogstraal, NAMRU-3, Cairo, Egypt.
			Cited: Hoogstraal (1956a: 885); Hoogstraal & Kaiser (1959: 256).
N	3227	N	3227
		RML	112206
	Undetermined genus N		1 N <u>Amblyomma</u> sp.
	<u>Crax alector</u>		<u>Crax alector</u>
	British Guiana		Guyana
	Rec'd. VII.1916		Rec'd. VII.1916
	E. Bodkin		E. Bodkin
	Genus pro tem undet. Gift of Ent. Comm. (E. 968) 7.VII.1916.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3228

N 3228

RML 112207

Haemaphysalis sp. 1 ♀, N's1 ♂, 1 ♀, 6 N Haemaphysalis
verticalisSpermophilus citellusCitellus citellus

Harbin, Manchuria, China

Ha-erh-pin (45.45 N, 126.39 E),
Heilungkiang, Peoples Republic
of China

Sent me 16.VIII.1915

Sent me 16.VIII.1915

Dr. Wu Lien Tep (=Dr. Tuck)

Dr. Wu Lien Tep (=Dr. Tuck)

(1 tube & 2 slides)
C.W. det.

Slides missing

C. Warburton noted 23.IX.1916.
Only 1 ♀ of leachi type closely
resembling our koningsbergeri,
but dentition ? 3/3. Asking
sender to send more adults.An additional 3 N are in the
Dr. Harry Hoogstraal collection,
NAMRU-3, Cairo, Egypt.

N 3229

N 3229 MISSING

Ixodes ricinus 2 larvaeOff my hand on pasture where
sheep were.

Capel Carig, N. Wales

2.IX.1916

G.H.F. Nuttall

G.H.F.N. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3230

Rhipicephalus sculptus 2 ♂, 1 ♀

Zebra

Ngara, Nyasaland

4.I.1915

Dr. J. B. Davey

C.W. det.
Gift of Imp. B. Ent. (=E. 996)
III.1917.

N 3230

RML 112208

2 ♂, 1 ♀ Rhipicephalus sculptus

Equus burchelli

Ngara (10.14 S, 34.07 E),
Karonga District, Malawi

4.I.1915

Dr. J. B. Davey

Cited: Santos Dias (1958: 479).

N 3231

Ixodes hexagonus Many ♀ gorged

Erinaceus europaeus

Cambridge

14.V.1917

Prof. J. S. Gardiner

C.W. & G.H.F.N. [det.]

2 ♀ to Prof. R. Matheson,
Cornell 27.V.1929.

N 3231

RML 112209

26 ♀ Ixodes hexagonus

Erinaceus europaeus

Cambridge (52.13 N, 00.08 E), England

14.V.1917

Prof. J. S. Gardiner

ORIGINAL DETERMINATIONCURRENT STATUS

N 3232

Ixodes hexagonus 1 ♀, gorgedCanis familiaris

Cambridge

22.V.1917

S. W. Cole

G.H.F.N. & C.W. [det.].

N 3232

RML 112210

1 ♀ Ixodes hexagonusCanis familiaris

Cambridge (52.13 N, 00.08 E), England

22.V.1917

S. W. Cole

N 3233

Ixodes ricinus 1 N, unfedCreeping on girl's hand off
grass, sheep about.

Easedale Tarn, Cumberland

9.IX.1917

G.H.F. Nuttall

G.H.F.N. det.

N 3233 MISSING

N 3234

Hyalomma aegyptium 2 ♂, 2 ♀ unfed

Off collector's clothing

Sollum, near Tripoli,
W. frontier of Egypt

XI.1916

E. S. Hay whilst on active
service (my secretary)

G.H.F.N. det.

N 3234

RML 112211

2 ♂, 2 ♀ Hyalomma anatolicum anatolicumHomo sapiens

Sollum (31.34 N, 25.09 E), Egypt

XI.1916

E. S. Hay whilst on active service
(my secretary)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3235	N	3235
		RML	112212
	<u>Argas reflexus</u> 2 adults		2 ♀ <u>Argas reflexus</u>
	Canterbury		Canterbury (51.16 N, 01.05 E), England
	Rec'd. 2.V.1917 alive		Rec'd. 2.V.1917 alive
	Correspondent of donor Mr. Brockett (Zool. Dept., Cambridge)		Correspondent of donor Mr. Brockett (Zool. Dept., Cambridge)
	C.W. & G.H.F.N. det. 2.V.1917.		
N	3236	N	3236
		RML	112213
	<u>Ixodes hexagonus</u> 3 ♀		3 ♀ <u>Ixodes hexagonus</u>
	<u>Erinaceus europaeus</u>		<u>Erinaceus europaeus</u>
	Grantchester, Cambs.		Grantchester (52.10 N, 00.06 E), England
	27.XI.1917		27.XI.1917
	N.D.F. Pearce		N.D.F. Pearce
	C.W. det.		
N	3237	N	3237
		RML	112214
	<u>Ixodes hexagonus</u> 10 N		11 N <u>Ixodes hexagonus</u>
	Dog & cat		Dog & cat
	Grantchester, Cambs		Grantchester (52.10 N, 00.06 E), England
	27.XI.1917		27.XI.1917
	N.D.F. Pearce		N.D.F. Pearce
	C.W. & G.H.F.N. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3238

Amblyomma dissimile 5 N, 1 L

Snake

in forest, Peru, S. America

Posted 23.X.1917

Dr. Ramon E. Ribeyro

C.W. det.

Rect. acknowledged 18.XII.1917,
determination to follow if possible
to make it. G.H.F.N.

Address: Dr. Ramon E. Ribeyro,
Direccion Instituto Nacional
de Vacuna, Lima, Peru
R. 8.VIII.1919

N 3238

RML 112215

5 N, 2 L Amblyomma dissimile

Snake

Peru, in forest

Posted 23.X.1917

Dr. Ramon E. Ribeyro

N 3239

Hyalomma aegyptium ♂, N'sLepus sp.

Amara, R. Tigris, Mesopotamia

30.X.1917

P. A. Buxton, Lieutenant, R.A.M.C.

Rec'd 14.I.1918. Det'd. by C.W.

N 3239

RML 112216

1 ♂ Hyalomma impeltatumLepus sp.

Al Amarah (31.50 N, 47.09 E), Iraq

30.X.1917

P. A. Buxton, Lieutenant, R.A.M.C.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3240	N	3240
		RML	112217
	<u>Hyalomma aegyptium</u> ♂, ♀, N		1 ♂ <u>Hyalomma impeltatum</u> 1 ♀ <u>Hyalomma anatolicum excavatum</u>
	<u>Ruticilla phoenicurus</u> (Redstart)		<u>Phoenicurus phoenicurus</u>
	Amara, R. Tigris, Mesopotamia		Al Amarah (31.50 N, 47.09 E), Iraq
	25.X.1917		25.X.1917
	P. A. Buxton, Lieutenant, R.A.M.C.		P. A. Buxton, Lieutenant, R.A.M.C.
	Rec'd. 14.I.1918 Det'd. by C.W.		
N	3241	N	3241
		RML	112218
	<u>Rhipicephalus sanguineus</u>		3 ♂, 1 ♀, 2 N <u>Rhipicephalus sanguineus</u> ? <u>Hemiechinus auritus</u>
	Hedgehog, ? <u>Erinaceus calligoni</u> (Satunin)		
	Amara, R. Tigris, Mesopotamia		Al Amarah (31.50 N, 47.09 E), Iraq
	8.XI.1917		8.XI.1917
	P. A. Buxton, Lieutenant, R.A.M.C.		P. A. Buxton, Lieutenant, R.A.M.C.
	Rec'd 14.I.1918. Det'd by C.W.		
N	3242	N	3242
		RML	112219
	<u>Hyalomma aegyptium</u> N		1 N <u>Hyalomma</u> sp.
	Lark (<u>Glarida</u> sp.)		<u>Glarida</u> sp.
	Amara, R. Tigris, Mesopotamia		Al Amarah (31.50 N, 47.09 E), Iraq
	IX.1917		IX.1917
	P. A. Buxton, Lieutenant, R.A.M.C.		P. A. Buxton, Lieutenant, R.A.M.C.
	Rec'd. 14.I.1918. Det'd. by C.W.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3243

Amblyomma mantiquirens 3 ♂, 2 ♀Dicotyles labiatus (wild hog)Tkuraka Lake, Ttiribiacci Creek,
Essequibo, British GuianaG. E. Bodkin (from I.
B.E. VI.1918. No. 1043)

C.W. det.

N 3243

RML 112220

3 ♂, 2 ♀ Amblyomma naponenseTayassu pecariTkuraka Lake, Ttiribiacci Creek,
Essequibo (05.24 N, 58.33 W), GuyanaG. E. Bodkin (from I.
B.E. VI.1918. (No. 1043)

N 3244

Argas persicus

Queenstown, C.P., S. Africa

3.XI.1917

Chas. K. Brain, M. Sc., M.A.,
Dept. of Agr., Pretoria

G.H.F.N. det.

N 3244

RML 112221

9 ♂, 2 ♀, 12 N Argas arboreusQueenstown (31.54 S, 26.53 E),
Republic of South Africa

3.XI.1917

Chas. K. Brain, M. Sc., M.A.,
Dept. of Agr., PretoriaThese specimens have more compact
ridges, more numerous mamillae, and
are consistently longer and wider
than A. arboreus - Tentative ID.N 3245 - 3254 OMITTED CATALOGUE
NUMBERSN 3245 - 3254 OMITTED CATALOGUE
NUMBERS

ORIGINAL DETERMINATIONCURRENT STATUS

N 3255

Boophilus australis

"Cattle & dogs"

Broken Hill, N. Rhodesia

1917

E. A. Copeman, District
Commissioner, Broken Hill,
N. Rhodesia

C.W. det.

N 3255

RML 112222

2 ♀ Boophilus decoloratus

"Cattle & dogs"

Kabwe (14.27 S, 28.27 E), Zambia

1917

E. A. Copeman, District Commissioner,
Broken Hill, N. Rhodesia

N 3256

Ixodes pilosus

"Cattle & dogs"

Broken Hill, N. Rhodesia

1917

E. A. Copeman, District
Commissioner, Broken Hill,
N. Rhodesia

C.W. det.

N 3256

RML 112223

2 ♂, 2 ♀ Ixodes cavipalpus

"Cattle & dogs"

Kabwe (14.27 S, 28.27 E), Zambia

1917

E. A. Copeman, District Commissioner,
Broken Hill, N. Rhodesia1 ♂ had its mouthparts embedded in
the dorsum of an engorged ♀.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3257	N	3257 MISSING
	<u>Haemaphysalis leachi</u>		
	"Cattle & Dogs"		
	Broken Hill, N. Rhodesia		
	1917		
	E. A. Copeman, District Commissioner, Broken Hill, N. Rhodesia		
	C.W. det.		
	2 ♀ to Prof. D'Arcy Thompson XI.1931.		
N	3258	N	3258
		RML	112224
	<u>Rhipicephalus sanguineus</u>		7 ♀ <u>Rhipicephalus sanguineus</u>
	"Cattle & dogs"		"Cattle & dogs"
	Broken Hill, N. Rhodesia		Kabwe (14.27 S, 28.27 E), Zambia
	1917		1917
	E. A. Copeman, District Commissioner, Broken Hill, N. Rhodesia.		E. A. Copeman, District Commissioner, Broken Hill, N. Rhodesia.
N	3259	N	3259
		RML	112225
	<u>Rhipicephalus simus</u>		1 ♂, 2 ♀ <u>Rhipicephalus simus</u> 1 ♀ <u>Rhipicephalus punctatus</u>
	"Cattle & Dogs"		"Cattle & Dogs"
	Broken Hill, N. Rhodesia		Kabwe (14.27 S, 28.27 E), Zambia
	1917		1917
	E. A. Copeman, District Commissioner, Broken Hill, N. Rhodesia		E. A. Copeman, District Commissioner, Broken Hill, N. Rhodesia
	C.W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3260
Ornithodoros moubata ??
 "Cattle & dogs"
 Broken Hill, N. Rhodesia
 1917
 E. A. Copeman, District Commissioner,
 Broken Hill, N. Rhodesia
 C. W. Det.

N 3261, a-c
 (3261) Amblyomma lepidum ♂'s, ♀'s
 (a) Boophilus australis 2 ♀
 (b) Rhipicephalus pulchellus 2 ♂, 3 ♀
 (c) Rhipicephalus neavei 1 ♀
 Zanzibar
 1.V.1917
 W. Mansfield Aders, Econ.
 Entomologist, Med. Dept., Publ.
 Health Division, Biol. Section,
 Zanzibar (He wrote 13.V.1918).
 C.W. det.

N 3260 MISSING
 N 3261, a-c
 RML 66673
 (3261) 8 ♂, 2 ♀ Amblyomma lepidum
 (a) 2 ♀ Boophilus microplus
 (b) 2 ♂, 3 ♀ Rhipicephalus pulchellus
 (c) 1 ♀ Rhipicephalus pravus
 Zanzibar Island (06.10 S, 39.20 E),
 Tanzania
 1.V.1917
 W. Mansfield Aders
 (3261) cited: Robinson (1926: 97).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3262

N 3262

RML 105678

Rhipicephalus sanguineus126 ♂, 77 ♀ Rhipicephalus sanguineus
1 ♂ Haemaphysalis parvata

Dogs

Dogs

Zanzibar

Zanzibar Island (06.10 S, 39.20 E),
Tanzania

9.VI.1916

9.VI.1916

W. Mansfield Aders

W. Mansfield Aders

C.W. det.

N 3263, a, b

N 3263, a, b

RML 112226

(3263) Amblyomma gemma ♂'s, ♀'s, N
(a) Boophilus australis 10 ♀
(b) Amblyomma variegatum ♂'s, ♀'s(3263) 15 ♂ Amblyomma gemma
(a) 10 ♀ Boophilus microplus
(b) 2 ♂, 2 ♀ Amblyomma variegatum

Cattle

Cattle

Zanzibar (Mr. Kunduchi)

Zanzibar Island (06.10 S, 39.20 E),
Tanzania

29.IV.1918

29.IV.1918

W. Mansfield Aders

W. Mansfield Aders

L. E. Robinson det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3267

N 3267

RML 112229

Rhipicephalus maculatus 1 ♂1 ♂ Rhipicephalus humeralis

Ox

Ox

Zanzibar Town

Zanzibar City (06.10 S, 39.11 E),
Zanzibar Island, Tanzania

2.IV.1912

2.IV.1912

W. Mansfield Aders

W. Mansfield Aders

C.W. det.

3267 Note "maculatus of sorts with
rather a distinct variation of
pattern" C.W.

N 3268

N 3268

RML 112230

Rhipicephalus kochi 4 ♂4 ♂ Rhipicephalus kochi

Leopard

Panthera pardus

Zanzibar

Zanzibar Island (06.10 S, 39.20 E),
Tanzania

15.III.1918

15.III.1918

W. Mansfield Aders

W. Mansfield Aders

C.W. det.

ORIGINAL DETERMINATION

CURRENT STATUS

N 3271

Aponomma laeve (?)

Naia naia

Zanzibar

13.V.1918

W. Mansfield Aders

C.W. det.

N 3271

RML 105784

6 ♂, 2 ♀, 1 N Aponomma latum
1 ♀ Haemaphysalis parvata

Naja naja

Zanzibar Island (06.10 S, 39.20 E),
Tanzania

13.V.1918

W. Mansfield Aders

N 3272, a-c

(3272) Rhipicephalus pulchellus
♂'s, ♀'s

(a) Hyalomma aegyptium ♂'s, ♀'s

(b) *Amblyomma lepidum* 4 ♂

(c) Rhipicephalus maculatus

Camels (imported)

Zanzibar

1.V.1918

W. Mansfield Aders

C.W. det.

3272c "like 3267 ? n. sp."

N 3272, a-c

RML 112233

(3272) 42 ♂, 2 ♀ Rhipicephalus
pulchellus

(a) 8 ♂, 3 ♀ Hyalomma dromedarii

(a) 5 ♂, 2 ♀ Hyalomma rufipes

(b) 4 ♂ *Amblyomma lepidum*

(c) 4 ♂ Rhipicephalus humeralis

Camelus dromedarius

Zanzibar Island (06.10 S, 39.20 E),
Tanzania

1.V.1918

W. Mansfield Aders

(3272b) cited: Robinson (1926: 97)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3273, a	N	3273, a MISSING
	(3273) <u>Amblyomma variegatum</u> ♂'s, ♀'s		
	(a) <u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		
	Cattle		
	Zanzibar		
	(M. Kunduchi)		
	26.IV.1918		
	W. Mansfield Aders		
	C.W. det.		
N	3274	N	3274
		RML	112234
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		74 ♂, 60 ♀, 25 N <u>Rhipicephalus appendiculatus</u>
	Donkeys		Donkeys
	Zanzibar Town		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	1917		1917
	W. Mansfield Aders		W. Mansfield Aders
	C.W. det.		
N	3275	N	3275 MISSING
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s (poorly developed)		
	Cattle		
	Zanzibar		
	2.VIII.1911		
	W. Mansfield Aders		
	C.W. det.		

CURRENT STATUS

N	3276, a	N	3276a
	(3276) <u>Rhipicephalus appendiculatus</u> ♀'s, N's	RML	112235
	(a) <u>Boophilus australis</u> 3 ♀		(3276) MISSING
	Cattle		(a) 3 ♀ <u>Boophilus microplus</u>
	Zanzibar		Cattle
	22.IV.1911		Zanzibar Island (06.10 S, 39.20 E), Tanzania
	W. Mansfield Aders		22.IV.1911
	C.W. det.		W. Mansfield Aders
N	3277	N	3277
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s	RML	112236
	Hedgehog sp.		8 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	Amara, Mesopotamia		Hedgehog
	7.III.1918		A1 Amarah (31.50 N, 47.09 E), Iraq
	P. A. Buxton, Capt. R.A.M.C.		7.III.1918
	C.W. det.		P. A. Buxton, Capt. R.A.M.C.
N	3278	N	3278
	<u>Hyalomma aegyptium</u> N's, ♂'s, ♀	RML	112237
	Hare		1 ♂, 2 ♀, 6 N <u>Hyalomma marginatum</u>
	Kumait, R. Tigris, 32°N		Hare
	XI.1917		A1 Kumayt (32.02 N, 46.52 E), Iraq
	P. A. Buxton, Capt. R.A.M.C.		XI.1917
	C.W. & N. det.		P. A. Buxton, Capt. R.A.M.C.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3279

Hyalomma aegyptium N's

Hare

Amara, Mesopotamia

28.XII.1917

P. A. Buxton, Capt. R.A.M.C.

C.W. & N. det.

N 3279

RML 112238

7 N Hyalomma sp.

Hare

Al Amarah (31.50 N, 47.09 E), Iraq

28.XII.1917

P. A. Buxton, Capt. R.A.M.C.

N 3280

Hyalomma aegyptium N's

Hare

Amara, Mesopotamia

1.II.1918

P. A. Buxton, Capt. R.A.M.C.
No. 144

C.W. & N. det.

N 3280

RML 112239

9 N Hyalomma sp.

Hare

Al Amarah (31.50 N, 47.09 E), Iraq

1.II.1918

P. A. Buxton, Capt. R.A.M.C.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3281

N 3281

RML 112240

Hyalomma ? syriacum N's
(not aegyptium)1 N Hyalomma sp.

Magpie

Pica pica

R. Vardar near Karasouli, Salonika

Vardar River (40.35 N, 22.50 E),
Greece

10.VIII.1917

10.VIII.1917

Lt. J. Waterston, R.A.M.C.
(B.E. Force)Lt. J. Waterston, R.A.M.C.
(B.E. Force)

C.W. det. 1918.

Rev. James Waterston (1879-1930)
born in Paisly, Scotland, educated
at Edinburgh University. He was a
minister in the Shetland Islands
where he became an authority on
British Mallophaga. In 1914 he
joined the staff of the Imperial
Bureau of Entomology. In May 1917
he received a temporary commission
in the R.A.M.C. as entomologist to
the Malaria Commission in Macedonia.

N 3282

N 3282

RML 112241

Hyalomma ? syriacum N
(not aegyptium)2 N Hyalomma sp.

Little owl

Athene noctua

Kalamaria, Salonika

Kalamaria (40.35 N, 22.58 E),
Macedonia, Greece

14.VIII.1917

14.VIII.1917

Lt. J. Waterston, R.A.M.C.
(B.E. Force)Lt. J. Waterston, R.A.M.C.
(B.E. Force)

C.W. det. 1918.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3283	N	3283
		RML	112242
	<u>Hyalomma ? syriacum</u> L		1 N, 1 L <u>Hyalomma</u> sp.
	Jackdaw		<u>Corvus monadula</u>
	T.E.F. Mikra, Salonica		T.E.F. Mikra, Salonica, Greece (locality not verified)
	15-22.VII.1917		15.22.VII.1917
	Lt. J. Waterston, R.A.M.C. (B.E. Force)		Lt. J. Waterston, R.A.M.C. (B.E. Force)
	C.W. det. 1918.		
N	3284	N	3284
		RML	112243
	<u>Hyalomma ? syriacum</u> N's, L (not <u>aegyptium</u>)		2 N, 1 L <u>Hyalomma</u> sp.
	Magpie		<u>Pica pica</u>
	Vardar River, Gumendze Bridge, Salonika		Gumendze Bridge, Vardar River (40.35 N, 22.50 E), Greece
	26.VII.1917		26.VII.1917
	Lt. J. Waterston, R.A.M.C. (B.E. Force)		Lt. J. Waterston, R.A.M.C. (B.E. Force)
	C.W. det. 1918.		
N	3285	N	3285
		RML	112244
	<u>Hyalomma ? syriacum</u> N's (not <u>aegyptium</u>)		1 N <u>Hyalomma</u> sp. 1 N <u>Haemaphysalis</u> sp.
	Partridge		Partridge
	Near Lohana, Salonika		Near Lakhanas (40.58 N, 23.12 E), Macedonia, Greece
	3.IX.1917		3.IX.1917
	Lt. J. Waterston, R.A.M.C. (B.E. Force)		Lt. J. Waterston, R.A.M.C. (B.E. Force)
	C.W. det. 1918.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3286

Haemaphysalis cinnabarina N's

Partridge

Near Lehana, Salonica

3.IX.1917

Lt. J. Waterston, R.A.M.C.
(B.E. Force)

C.W. det. 1918.

N 3286

RML 112245

2 N Haemaphysalis sp.

Partridge

Near Lakhanas (40.58 N, 23.12 E),
Macedonia, Greece

3.IX.1917

Lt. J. Waterston, R.A.M.C.
(B.E. Force)

N 3287

Ixodes brunneus N

Chaffinch

Oneovica, Salonika

30.X.1917

Lt. J. Waterston, R.A.M.C.
(B.E. Force)

C.W. det. 1918.

Returned

N 3287 MISSING

N 3288

Argas vespertilionis l.Desmodus rufus

Lima, Peru

Rec'd. by me 11.IV.1916

Dr. Ramon E. Ribeyro
(see address at No. 3238)

C.W. det. 1917.

N 3288

RML 112246

5 L Ornithodoros sp.Desmodus rotundus

Lima (12.03 S, 77.03 W), Peru

Rec'd. by me 11.IV.1916

(Dr. Ramon E. Ribeyro
(see address at No. 3238)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3289

Boophilus australis ♀

Cow

Lima, Peru

Rec'd. by me 11.IV.1916

Dr. Ramon E. Ribeyro
(see address at No. 3238)

C.W. det. 1917.

N 3289

RML 112247

1 ♂, 9 ♀ Boophilus annulatus

Cow

Lima (12.03 S, 77.03 W), Peru

Rec'd. by me 11.IV.1916

Dr. Ramon E. Ribeyro
(see address at No. 3238)

N 3290

Ornithodoros megnini N's, ♂'s, ♀'s

Dog (ears)

Huancayo, Peru

Rec'd. by me 11.IV.1916

Dr. Ramon E. Ribeyro
(see address at No. 3238)

C.W. det. 1917.

Given to D.S. MacLagan 14/10/38.

N 3290 MISSING

N 3291

Boophilus sp. ♀'s

Belgian Congo, Labelled "Stipley"

Rec'd. 27.VII.1915

W. F. Cooper (sent by L. M. Long
from Tshinsinda for W.F.C. to me)

C.W. det.

[Thrown away]

N 3291 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	3292	N	3292 MISSING
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		
	Belgian Congo, labelled "Stipley"		
	Rec'd. 27.VII.1915		
	W. F. Cooper (sent by L. M. Long, from Tshinsinda, for W.F.C. to me)		
	C.W. det.		
	[Thrown away]		
N	3293	N	3293
		RML	112248
	<u>Rhipicephalus neavei</u> var. <u>punctatus</u> 2 ♂, 3 ♀ (very typical)		2 ♂, 3 ♀ <u>Rhipicephalus pravus</u>
	Belgian Congo, labelled "Stipley"		Zaire
	Rec'd. 27.VII.1915		Rec'd. 27.VII.1915
	W. F. Cooper (sent by L. M. Long, from Tshinsinda for W.F.C. to me)		W. F. Cooper (sent by L. M. Long, from Tshinsinda for W.F.C. to me)
	C.W. det.		
N	3294	N	3294
		RML	112249
	<u>Boophilus australis</u> ♂'s, ♀'s, N's		5 ♂, 19 ♀, 1 N <u>Boophilus microplus</u>
	Cow		Cow
	Queensland, Australia		Queensland, Australia
	12.IV.1913		12.IV.1913
	Munroe Hull		Munroe Hull
	C.W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3295

Boophilus australis 2 ♂, 2 young ♀,
N's

Cow

Queensland, Australia

12.IV.1913

Munroe Hull

C.W. det.

N 3296

Boophilus australis 2 ♀

Cow

Queensland, Australia

8.IV.1913

Munroe Hull

C.W. det.

N 3295

RML 112250

3 ♂, 3 ♀, 17 N Boophilus microplus

Cow

Queensland, Australia

12.IV.1913

Munroe Hull

N 3296

RML 112251

2 ♀ Boophilus microplus

Cow

Queensland, Australia

8.IV.1913

Munroe Hull

Collection of ticks from German East Africa, posted to me on 31.VIII.1918 by Lt-Col. H. B. Newham, R.A.M.C. (of Lond. School of Trop. Med.) from c/o D.D.M.S., E. Africa Exped. Force who wrote of the tubes: "The history of them will interest you. In going over a lot of old things stowed away in the German Laboratory here we came across this box with your name on, so they had evidently been collected for you & probably the outbreak of war had prevented them being sent. I spoke to the D.D.M.S. here (Col. Tate) & he agreed with me that they ought to be sent to you so here you are." I am sure the ticks were collected for me by Dr. Kudicke of the Institut für Senchenbekämpfung, Daressalam, G.E.A. who had previously sent specimens.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3297	N	3297
		RML	112252
	<u>Rhipicephalus evertsi</u> ♂, ♀		16 ♂, 11 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Kondoa - Irangi		Kondoa (04.54 S, 35.47 E), Dodoma Region, Tanzania
	5.X.1913		5.X.1913
	Dr. Kudicke		Dr. Kudicke
	C. Warburton det.		This collection also contained 1 ♂, 1 N <u>Haematopinus quadripertusus</u> (Insecta: Anoplura) Det. Dr. K.C. Kim.
N	3298	N	3298
		RML	112253
	<u>Ornithodoros moubata</u>		1 ♂, 1 ♀, 2 N <u>Ornithodoros moubata</u>
	Jumbe Makwayila		Jumbe Makwayila, Tanzania (locality not verified)
	Dr. Kudicke		Dr. Kudicke
	C. Warburton det.		These specimens are <u>Ornithodoros</u> <u>porcinus porcinus</u> according to Walton (1962: 126).

ORIGINAL DETERMINATION

N 3299

Ornithodoros moubata

Jumbe Sawanga

Dr. Kudicke

C. Warburton det.

N 3300

Ornithodoros moubata

Kajanja

Dr. Kudicke

C. Warburton det.

CURRENT STATUS

N 3299

RML 112254

3 ♂, 1 ♀, 11 N Ornithodoros moubataJumbe Sawanga, Tanzania
(locality not verified)

Dr. Kudicke

These specimens are Ornithodoros
porcinus porcinus according to
Walton (1962: 126).

N 3300

RML 112255

5 N Ornithodoros moubataKajanja, Tanzania
(locality not verified)

Dr. Kudicke

These specimens are Ornithodoros
porcinus porcinus according to
Walton (1962: 126).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3301, a-d

N 3301, a-d

RML 112256

- (3301) Haemaphysalis leachi
 (a) Rhipicephalus simus
 (b) Rhipicephalus sanguineus
 (c) Amblyomma tholloni
 (d) Rhipicephalus kochi (small)

- (3301) 7 ♂, 1 ♀ Haemaphysalis leachi
 (a) 11 ♂, 2 ♀ Rhipicephalus simus
 (b) 6 ♂, 1 ♀ Rhipicephalus sanguineus
 (c) 8 ♂, 7 ♀ Amblyomma tholloni
 (d) 2 ♂, 2 ♀ Rhipicephalus punctatus

2 leopards

Panthera pardus (2)

Lindi District

Lindi District (10.00 S, 39.44 E),
Mtwara Region, Tanzania

1913

1913

Dr. Kudicke

Dr. Kudicke

C. Warburton det.

Tentative ID on ♀ of Rhipicephalus
sanguineus

(3301c) cited: Robinson (1926: 253).

3301 H. leachi to:

- 1 ♂, 1 ♀ to Prof. Sadeo Yoshida at Cambridge 21.XII.1920.
 1 ♂, 1 ♀ to P. A. Buxton at Cambridge 10.II.1921.
 1 ♂, 1 ♀ to Prof. Dr. D. A. deYong at Cambridge 8.IV.1921.
 1 ♂, 1 ♀ to Prof. G. Hedger-Wallace, Univ. Wales, Cardiff 1921.
 1 ♂, 1 ♀ to S. H. Dankes, Wellcome Bureau, London 9.I.1924.
 1 ♂, 1 ♀ to Dr. E. Roubaud, Inst. Pasteur, Paris 12.X.1922.
 1 ♂, 1 ♀ to Prof. J. Hjort, Univ. Christiana, Norway 12.X.1922
 1 ♂, 1 ♀ to Dr. A. Watkins Pitchford, Army Vet. Sch., Thornhill, Aldershot
 12.X.1922.
 1 ♂, 1 ♀ to L.P.W. Renouf, Biol. Dept., Univ. Coll., Cork, Ireland 12.X.1922.
 1 ♂, 1 ♀ to W. A. Pool, Indian Civil Vet. Dept. 12.X.1922.
 1 ♂, 1 ♀ to Dr. Wm. Parry Morgan, Publ. Hlth, Lab, Cardiff, Wales 12.X.1922.
 1 ♂, 1 ♀ to J.E.M. Mellor, Malvern College, Malvern 16.X.1922.
 1 ♂, 1 ♀ to Prof. A. Bettencourt, Inst. Camara Pestana, Lisbon 7.XI.1922.
 1 ♂, 1 ♀ to Prof. E. Brumpt, L'École de Médecine, Paris, 12.X.1922.
 1 ♂, 1 ♀ to I. C. Ross, Univ. of Sydney, Australia.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3302	N	3302
		RML	112257
	<u>Rhipicephalus simus</u>		11 ♂, 22 ♀ <u>Rhipicephalus simus</u>
	Lion		<u>Panthera leo</u>
	Lake Nyasa		Lake Nyasa (12.00 S, 34.30 E), Tanzania
	1913		1913
	Dr. Kudicke		Dr. Kudicke
	C. Warburton det.		
N	3303, a	N	3303a
		RML	112258
	(3303) <u>Amblyomma variegatum</u> ♂, ♀		(3303) MISSING
	(a) <u>Boophilus australis</u>		(a) 12 ♀ <u>Boophilus decoloratus</u>
	Cattle		Cattle
	Daressalam		Daressalaam (06.48 S, 39.17 E), Coast Region, Tanzania
	1912		1912
	Dr. Kudicke		Dr. Kudicke
	C. Warburton det.		
N	3304	N	3304
		RML	112259
	<u>Boophilus australis</u>		2 ♂, 62 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Ssongea		Songea (10.41 S, 35.39 E), Ruvuma Region, Tanzania
	1913		1913
	Dr. Kudicke		Dr. Kudicke
	C. Warburton det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3305

Rhipicephalus evertsi

Goat

Kondoa - Irangi

5.X.1913

Dr. Kudicke

C. Warburton det.

N 3305

RML 112260

13 ♂, 2 ♀ Rhipicephalus evertsi

Goat

Kondoa (04.54 S, 35.47 E), Dodoma
Region, Tanzania

5.X.1913

Dr. Kudicke

N 3306

Rhipicephalus sanguineus 2 ♂

Dog (with piroplasmosis)

Kondoa - Irangi

IX.1913

Dr. Kudicke

C. Warburton det.

N 3306

RML 112261

2 ♂ Rhipicephalus sanguineus

Dog

Kondoa (04.54 S, 35.47 E), Dodoma
Region, Tanzania

IX.1913

Dr. Kudicke

N 3307

Rhipicephalus evertsi

Sheep

Kondoa - Irangi

5.X.1913

Dr. Kudicke

C. Warburton det.

N 3307

RML 112262

16 ♂, 4 ♀ Rhipicephalus evertsi

Sheep

Kondoa (04.54 S, 35.47 E), Dodoma
Region, Tanzania

5.X.1913

Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N 3308, a

N 3308, a

RML 112263

(3308) Haemaphysalis leachi
(a) Rhipicephalus sanguineus(3308) 11 ♂, 2 ♀ Haemaphysalis leachi
(a) 4 ♂, 2 ♀ Rhipicephalus sanguineus

Wild dog

Lycæon pictus

Lindi

Lindi (10.00 S, 39.43 E),
Mtwara Region, Tanzania

18.X.1913

18.X.1913

Dr. Kudicke

Dr. Kudicke

C. Warburton det.

ORIGINAL DETERMINATION

N 3309

Ixodes vespertilionis L, NRhinolophys ferrum-equinum

Zaragoza, Spain

Sent alive on 25.III.1919

Prof. Jesus Maynar, Faculty of
Sci. at Z. Sent by M. Longin
Navas, S.J.

Determined by G.H.F. Nuttall.

N 3310

Dermacentor variabilis 1 ♂, 1 ♀

Long-tailed wild cat

Monterey, California

6.VIII.1895

Sent by Prof. Vernon Kellogg
ex his No. 266

C.W. det.

CURRENT STATUS

N 3309

RML 112264'

2 N, 2 L Ixodes vespertilionisRhinolophus ferrumequinum

Zaragoza (41.38 N, 00.53 W), Spain

Sent alive on 25.III.1919

Prof. Jesus Maynar, Faculty of
Sci. at Z. Sent by M. Longin
Navas, S.J.

N 3310

RML 112265

1 ♂, 1 ♀ Dermacentor variabilisFelis concolorMonterey (36.37 N, 121.55 W),
California, U.S.A.

6.VIII.1895

Sent by Prof. Vernon Kellogg
ex his No. 266Spiracular plate dissected from
one side of both ♂ & ♀.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3311

N 3311

RML 112266

Dermacentor albipictus 2 ♂, 4 ♀2 ♂, 4 ♀ Dermacentor albipictus

Horse

Horse

Menlo Park, California

Menlo Park (37.28 N, 122.13 W),
California, U.S.A.

VI.1892

VI.1892

Sent by Prof. Vernon Kellogg
ex his No. 271Sent by Prof. Vernon Kellogg
ex his No. 271

C.W. det.

Ticks collected by Dr. W. B. Johnson on his travels in Nigeria & sent to me
8.I.1917 from "Scotch Cottage, Hanworth, Norfolk." He also sent insects,
but desired none returned:-

N 3312, a

N 3312, a

RML 112267

(3312) Hyalomma aegyptium
(a) Rhipicephalus falcatus(3312) 6 ♂, 2 ♀ Hyalomma truncatum
(a) 11 ♂, 1 ♀ Rhipicephalus
senegalensis

Roan antelope

Hippotragus equinus

Zungeru, Nigeria

Zungeru (09.48 N, 06.09 E), Nigeria

17.X.1915

17.X.1915

Dr. W. B. Johnson (His No. 1)

Dr. W. B. Johnson (His No. 1)

C. Warburton det. 1917.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3313	N	3313
		RML	112268
	<u>Rhipicephalus simus</u> 2 ♂		2 ♂ <u>Rhipicephalus muhsamae</u>
	The collector		<u>Homo sapiens</u>
	Zungeru, Nigeria		Zungeru (09.48 N, 06.09 E), Nigeria
	14.XI.1915		14.XI.1915
	Dr. W. B. Johnson (His No. 5)		Dr. W. B. Johnson (His No. 5)
	C. Warburton det. 1917.		
N	3314	N	3314
		RML	112269
	<u>Rhipicephalus sanguineus</u> 1 ♂, 1 N		1 ♂, 1 N <u>Rhipicephalus sanguineus</u>
	Hare		<u>Lepus</u> sp.
	Zungeru, Nigeria		Zungeru (09.48 N, 06.09 E), Nigeria
	7.XII.1915		7.XII.1915
	Dr. W. B. Johnson (his No. 9)		Dr. W. B. Johnson (His No. 9)
	C. Warburton det. 1917.		
N	3315	N	3315
		RML	112270
	<u>Aponomma laeve</u> ♂'s		6 ♂, 1 N <u>Aponomma latum</u>
	Snake No. 34		Snake
	Zungeru, Nigeria		Zungeru (09.48 N, 06.09 E), Nigeria
	30.III.1916		30.III.1916
	Dr. W. B. Johnson (His No. 35)		Dr. W. B. Johnson (His No. 35)
	C. Warburton det. 1917.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3316

Rhipicephalus simus

Wart-hog

Zungeru, Nigeria

2.IV.1916

Dr. W. B. Johnson (His No. 40)

C. Warburton det. 1917.

N 3317

Aponomma exornatum

Monitor

Zungeru, Nigeria

3.IV.1916

Dr. W. B. Johnson (His No. 41)

C. Warburton det. 1917.

N 3318, a

(3318) Hyalomma aegyptium
(a) Rhipicephalus simus

8 wart-hogs

Katagum, Nigeria

V-X.1916

Dr. W. B. Johnson (His No. 45)

C. Warburton det. 1917.

N 3316

RML 112271

8 ♂, 11 ♀ Rhipicephalus longus
1 ♂ Rhipicephalus cuspidatus

Phacochoerus aethiopicus

Zungeru (09.48 N, 06.09 E), Nigeria

2.IV.1916

Dr. W. B. Johnson (His No. 40)

N 3317

RML 112272

17 ♂, 2 ♀, 3 N Aponomma flavomaculatum

Varanus sp.

Zungeru (09.48 N, 06.09 E), Nigeria

3.IV.1916

Dr. W. B. Johnson (His No. 41)

Vial label locality spelled Zungaru.

N 3318, a

RML 112273

(3318) 18 ♂, 28 ♀ Hyalomma truncatum
(a) 35 ♂, 27 ♀ Rhipicephalus muhsamae
(a) 1 ♂, 3 ♀ Rhipicephalus cuspidatus

8 Phacochoerus aethiopicus

Katagum (12.17 N, 10.21 E), Nigeria

V-X.1916

Dr. W. B. Johnson (His No. 45).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3319	N	3319
	<u>Hyalomma aegyptium</u>	RML	112274
	5 Roan antelope		77 ♂, 15 ♀ <u>Hyalomma truncatum</u>
	Katagum, Nigeria		5 <u>Hippotragus equinus</u>
	V-VII.1916		Katagum (12.17 N, 10.21 E), Nigeria
	Dr. W. B. Johnson (His No. 46)		V-VII.1916
	C. Warburton det. 1917.		Dr. W. B. Johnson (His No. 46).
N	3320, a-c	N	3320 a-c
	(3320) <u>Rhipicephalus simus</u>	RML	112275
	(a) <u>Rhipicephalus sanguineus</u>		(3320) MISSING
	(b) <u>Hyalomma aegyptium</u>		(a) 49 ♂, 42 ♀, 4 N <u>Rhipicephalus sanguineus</u>
	(c) <u>Haemaphysalis leachi</u>		(b) 5 ♂, 4 ♀ <u>Hyalomma truncatum</u>
	"Dog & hares & collector"		(c) 3 ♂, 6 ♀ <u>Haemaphysalis leachi</u>
	Katagum, Nigeria		Dog & <u>Lepus</u> sp. & <u>Homo sapiens</u>
	X-XI.1916		Katagum (12.17 N, 10.21 E), Nigeria
	Dr. W. B. Johnson (His No. 60)		X-XI.1916
	C. Warburton det. 1917.		Dr. W. B. Johnson (His No. 60).
N	3321, a	N	3321, a
	(3321) <u>Rhipicephalus sanguineus</u>	RML	112276
	(a) <u>Amblyomma</u> sp. N's		(3321) 41 ♂, 19 ♀ <u>Rhipicephalus sanguineus</u>
	4 Hares		(a) 7 N <u>Hyalomma</u> sp.
	Katagum, Nigeria		4 <u>Lepus</u> sp.
	VI-VII.1916		Katagum (12.17 N, 10.21 E), Nigeria
	Dr. W. B. Johnson (His No. 62)		VI-VII.1916
	C. Warburton det. 1917.		Dr. W. B. Johnson (His No. 62).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3322

Rhipicephalus sanguineus 5 ♂

2 Senegal gazelle & 2 Duiker buck
& Echestypus sepiaceus

Katagum, Nigeria

V-VII.1916

Dr. W. B. Johnson (His No. 64)

C. Warburton det. 1917.

N 3322

RML 112277

5 ♂ Rhipicephalus sanguineus

2 Senegal gazelle & 2 Duiker buck

Katagum (12.17 N, 10.21 E), Nigeria

V-VII.1916

Dr. W. B. Johnson (His No. 64)

Echestypus sepiaceus is now Lipoptena sepiacea (Insecta:Hippoboscidae).

N 3323

Rhipicephalus simus 2 ♂, 5 ♀

Jackal

Katagum, Nigeria

30.VI.1916

Dr. W. B. Johnson (His No. 66)

C. Warburton det. 1917.

N 3323

RML 112278

5 ♀ Rhipicephalus muhsamae

Probably Canis adustus

Katagum (12.17 N, 10.21 E), Nigeria

30.VI.1916

Dr. W. B. Johnson (His No. 66).

N 3324

Rhipicephalus sanguineus ♂, ♀

Dog

Zungaru, Nigeria

I-IV.1916

Dr. W. B. Johnson (His No. 67)

C. Warburton det. 1917.

N 3324

RML 112279

10 ♂, 5 ♀ Rhipicephalus sanguineus

Dog

Zungeru (09.48 N, 06.09 E), Nigeria

I-IV.1916

Dr. W. B. Johnson (His No. 67).

ORIGINAL DETERMINATION

N 3325, a

(3325) Rhipicephalus simus ♂, ♀
 (a) Haemaphysalis leachi 1 ♀

Hyena

Katagum, Nigeria

28.X.1916

Dr. W. B. Johnson (His No. 74)

C. Warburton det. 1917.

N 3326

Amblyomma integrum 2 ♂

Pig

Ceylon

29.III.1915

Indian Mus. $\frac{GMH}{1}$ (2 returned)

C. Warburton det. 1917.

CURRENT STATUS

N 3325, a

RML 112280

(3325) 31 ♂, 5 ♀ Rhipicephalus muhsamae
 (a) 1 ♀ Haemaphysalis leachi

Crocuta crocuta

Katagum (12.17 N, 10.21 E), Nigeria

28.X.1916

Dr. W. B. Johnson (His No. 74).

N 3326

RML 112281

1 ♂ Amblyomma integrum

Sus scrofa

Sri Lanka

29.III.1915

Cited: Robinson (1926: 114).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3327

Amblyomma helvolum 2 ♀

Coluber decoratus

Singora, Siam

27.I.1916

N. Annandale

Ind. Mus. $\frac{2388}{17}$ (2 returned)

C. Warburton det. 1917.
L.E.R. det. 1926.

N 3328

Dermacentor variabilis 1 ♂

Fox

Palo Alto, California

V.1895

Sent for det. by Prof. V. Kellogg

C. W. det.

N 3327

RML 112282

2 ♀ Amblyomma helvolum

Dendrelaphis pictus

Probably Singgora now Songkhla
(07.12 N, 100.36 E), Thailand

27.I.1916

N. Annandale

Cited: Sharif (1928:326).

N 3328

RML 112283

1 ♂ Dermacentor variabilis

Vulpes fulva or Urocyon
cinereoargenteus

Palo Alto (37.27 N, 122.09 W),
California, U.S.A.

V.1895

Sent for det. by Prof. V. Kellogg.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3329	N	3329
		RML	112284
	<u>Dermacentor auratus</u> ♂'s, ♀'s		5 ♂, 2 ♀ <u>Dermacentor</u> sp.
	Malay bear		<u>Helarctos malayanus</u>
	Kuala Lumpur, F. Malay States		Kuala Lumpur (03.10 N, 101.42 E), Malaysia
	III.1915		III.1915
	? C. Strickland		? C. Strickland
	C. W. det.		
N	3330	N	3330
		RML	112285
	<u>Dermacentor auratus</u> 1 ♀		1 ♀ <u>Dermacentor</u> sp.
	No particular		No particular
	Gift of Hon. N.C. Rothschild "R. 243"		Gift of Hon. N.C. Rothschild "R. 243"
	C. W. det.		
N	3331	N	3331
		RML	112286
	<u>Haemaphysalis montgomeryi</u> 2 ♂		2 ♂ <u>Haemaphysalis montgomeryi</u>
	Hill goat		Goat, hill
	Rawalpindi		Rawalpindi (33.36 N, 73.04 E), Pakistan
	V.H. Woodley, Supt. C.V.O.		V.H. Woodley, Supt. C.V.O.
	Rec'd. from Mr. F. M. Howlett "6"		
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3332

Boophilus australis

Cattle

Kamabai, Sierra Leone, W. Africa

14.XII.1913

Dr. J. Y. Wood

C. W. det.

N 3333

Ixodes ornithorhynchi ♀, N's

Platypus

W. Australia

12.VII.1911

From G. Sweet "No. 763"

G.H.F.N. det.

N 3332

RML 112287

9 ♂, 134 ♀, 10 N Boophilus geigy

Cattle

Kamabai (09.09 N, 11.58 W),
Northern Province, Sierra Leone

14.XII.1913

Dr. J. Y. Wood.

N 3333

RML 22289

1 ♀, 11 N Ixodes ornithorhynchi

Ornithorhynchus anatinus

Western Australia, Australia

12.VII.1911

From G. Sweet "No. 763".

ORIGINAL DETERMINATION

N 3334

Haemaphysalis bispinosa
var. intermedia

Pittapur, E. India

3.VII.1906

"J. R. $\frac{87}{IV}$ "

C. W. det.

N 3335

Ornithodoros piriformis 5 CO-TYPESMahabaleshwar, Satara Distr.,
ca. 4200 ft. (ex Robber Cave)

13-16.IV.1912

"F.H.G."

Ind. Mus. $\frac{SPA}{10}$

C.W. det.

CURRENT STATUS

N 3334

RML 71471

10 ♂, 21 ♀ Haemaphysalis intermediaPittapur, E. India (locality not
verified)

3.VII.1906

"J. R. $\frac{87}{IV}$ "Cited: Hoogstraal & Trapido
(1963: 838).There are an additional 3 ♂, 4 ♀
of this collection in the R.M.L.
collection (RML 27165).

N 3335

RML 112288

1 ♂, 3 ♀ Ornithodoros piriformis
Lectotype and paralectotypesRobbers Cave, Mahabaleshwar (17.55
N, 73.40 E), Maharashtra, India
(ca 1280 m)

13-16.IV.1912

"F.H.G." [F.H. Gravely]

Warburton (1918: 285) original
description. Lectotype designated:
Keirans & Brewster (1981: 154).Label in vial with data "Hypostome,
palp & leg I on slide." Slide
missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3336

Aponomma laeve var. paradoxum ♂, ♀

Naia tripudians

Bangalore, India

18.VII.1917

Dr. H. H. Marshall "8"

C. W. det.

N 3337

Aponomma laeve 3 ♂

Naia tripudians

Rangoon, Burma

16.I.1916

Dr. H. H. Marshall "11"

C. W. det.

N 3336

RML 112289

1 ♂, 2 ♀ Aponomma pattoni

Naja naja

Bangalore (12.59 N, 77.35 E), India

18.VII.1917

Dr. H. H. Marshall "8".

N 3337

RML 112290

2 ♂ Aponomma pattoni

Naja naja

Rangoon (16.47 N, 96.10 E), Burma

16.I.1916

Dr. H. H. Marshall "11".

ORIGINAL DETERMINATIONCURRENT STATUS

N 3338, a, b

N 3338, a, b

RML 87364

(3338) Amblyomma testudinarium
2 ♂, 3 ♀(3338) 2 ♂, 3 ♀ Amblyomma
testudinarium(a) Haemaphysalis leachi 1 ♀(3338) 1 ♂ Haemaphysalis japonica(b) Haemaphysalis kinneari 1 ♀(a) 1 ♀ Haemaphysalis sp.(b) 1 ♀ Haemaphysalis kinneariFelis tigrisPanthera tigris

Pugyi, Burma

Pugyi (17.15 N, 96.01 E), Burma

10.VI.1918

10.VI.1918

Mr. Christopher "R. 22"

Mr. Christopher "R. 22"

N & C.W. det.

(3338) cited: Robinson (1926: 257).

Ticks sent by Dr. de Greef, méd cin vétérinaire dans le Haut Ituri,
ca. 50 miles W. of Lake Edward, Belgian Congo, Central Africa.
Communicated by M. Smeyers (of the Belgian Agric. Dept., residing
pro tem in Cambridge).

N 3339

N 3339 MISSING

Amblyomma variegatum ♂, ♀

Cattle

Dolo, Lower Congo

1916

R. van Saceghem

C.W. det.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3340	N	3340 MISSING
	<u>Amblyomma variegatum</u> (1 queer)		
	Cattle		
	Haut-Ituri, near Lake Edward, Belgian Congo		
	1916		
	Dr. de Greef		
	C. W. det.		
N	3341	N	3341 MISSING
	<u>Amblyomma variegatum</u>		
	Cattle		
	Haut-Ituri, near Lake Edward, Belgian Congo		
	1916		
	Dr. de Greef		
	C. W. det.		
N	3342	N	3342
		RML	112291
	<u>Boophilus decoloratus</u>		2 ♀ <u>Boophilus decoloratus</u>
	Cattle		Cattle
	Zambi, Lower Congo		Zambi, Zaire (locality not verified; 4 possible localities)
	12.II.1916		12.II.1916
	R. van Saceghem		R. van Saceghem.
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3343

Rhipicephalus evertsi
var. with banded legs

Cattle

Zambi, Lower Congo

12.II.1916

R. van Saceghem

C. W. det.

N 3343

RML 112292

4 ♂, 4 ♀ Rhipicephalus evertsi

Cattle

Zambi, Zaire (locality not verified;
4 possible localities)

12.II.1916

R. van Saceghem.

N 3344

Rhipicephalus appendiculatus 4 ♀
small not typical

Cattle

Zambi, Lower Congo

12.II.1916

R. van Saceghem

C. W. det.

N 3344

RML 112293

4 ♀ Rhipicephalus appendiculatus

Cattle

Zambi, Zaire (locality not verified;
4 possible localities)

12.II.1916

R. van Saceghem.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3345

N 3345

RML 112294

Rhipicephalus duttoni with others
ranging to appendiculatus
(d. a variant of a. ?)

4 ♂, 1 N Rhipicephalus duttoni

Cattle

Cattle

Haut-Ituri nr. Lake Edward,
Belgian Congo

Ituri (01.51 N, 29.58 E), Zaire

1916

1916

Dr. de Greef

Dr. de Greef

C. W. det.

Nymph tentatively this species.

Cited: Santos Dias (1958: 474).

N 3346

N 3346

RML 112295

Aponomma gervaisi var. lucasi 2 ♂, 1 ♀

2 ♂, 1 ♀ Aponomma varanensis

Varanus nebulosus

Varanus bengalensis

Ko Yaw near Singora
Tatē Sap, Siam

Ko Yaw near Songkhla (07.12 N,
100.36 E), Thailand

2.I.1916

2.I.1916

N. Annandale

N. Annandale

Ind. Mus. $\frac{2401}{17}$ (rest returned)

C. W. det.

ORIGINAL DETERMINATION

N 3347

Hyalomma aegyptium 10 ♂, 7 ♀Hemitragus hilocrius (Ogilby) the
Nilgiri wild goatParambikulan, Cochin State
(1700-3200 ft.)

16.24.IX.1914

F. H. Graveley

Ind. Mus. $\frac{2173}{17}$ the bulk returned

Also a deformed ♀ separately bottled

C. W. & N. det.

No.3347 described by L. E. Robinson
in Parasitology XII (1920)N.B. The ♀'s normal, the ♂'s
aberrant; with anal plates broad
behind, accessory anal plates
laterally placed, no posterior
"points" (so typical of the species),
but otherwise indistinguishable from
the Indian H. aegyptium.CURRENT STATUS

N 3347

RML 112296

10 ♂, 7 ♀ Hyalomma kumariHemitragus hylocriusParambikolam (10.23 N, 76.49 E),
India (518-975m)

16.24.IX.1914

F. H. Graveley

1 ♀ of the above total in a jar
marked "Tick Abnormalities"

Figured: Robinson (1920: 178).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3348

N 3348

RML 66611

Hyalomma aegyptium 2 ♂, 1 ♀2 ♂, 1 ♀ Hyalomma hussaini

Buffalo

Buffalo

Bangalore

Bangalore (12.59 N, 77.35 E), India

5.V.1913

5.V.1913

W. Baillie. Rec'd from Dr. H. H. Marshall, 8 Voyle Road, Rangoon, Burma

W. Baillie. Rec'd from Dr. H. H. Marshall, 8 Voyle Road, Rangoon, Burma

C. W. & N. det.

N.B. The ♀'s normal, the ♂'s aberrant; with anal plates broad behind, accessory anal plates laterally placed, no posterior "points" (so typical of the species), but otherwise indistinguishable from the Indian H. aegyptium.

Picked out of many typical ♂'s & ♀'s that were returned to Dr. Marshall 5.V.1916. See Report book p. 183.

N 3349

N 3349

RML 112297

Ornithodoros talaje 14 spec's (rec'd. alive)1 N Ornithodoros sp.

Jamaica

Jamaica

Rec'd IX.1916

Rec'd IX.1916

Anderson

Anderson

C. W. & N. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3350

N 3350

RML 112298

Haemaphysalis sp. ♀1 ♀ Haemaphysalis sp.

N. Auckland, N. Zealand

Auckland (36.52 S, 174.46 E),
New Zealand

IV.1917

IV.1917

C.S.M. Hopkirk

C.S.M. Hopkirk

G.H.F.N. det.

Said to be punctata. Rec'd. in
bad condition treated with caustic
& no capitulum found, scutum &
coxae as in punctata.

N 3351

N 3351 MISSING

Amblyomma varium ♀Bradypus tridactylus
(Sloth)

No record of locality

Gift of Hon. N. C. Rothschild
years ago

L. E. Robinson det. 26.III.1919

3 slides, scutum, legs, spiracle.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3352

N 3352

RML 112299

Rhipicephalus maculatus 6 ♂
atypical5 ♂ Rhipicephalus humeralis

No record of locality

Africa

Gift 15.IV.1919

Gift 15.IV.1919

Gift of I.B.E. "498"

Gift of I.B.E. "498".

C. W. det.

Reports 23 & 68 to Bureau

Note: ornamentation limited
to front of scutum.

N 3353

N 3353 MISSING

Ixodes ricinus 1 ♀

Horse (from neck)

Ty Gwyn, a farm 5 miles from
Machynlleth, Montgomeryshire, Wales
(a mountain sheep farm)

2.VII.1919

C. L. Walton (now at Fisheries
Lab. University, Liverpool)

G.H.F.N. det.

N 3354

N 3354 MISSING

Dermacentor reticulatus
var. niveus 2 ♂, 2 ♀

G.H.F.N. det.

Rec'd. alive

On 1 slide dry.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3355

N 3355

RML 107233

Ornithodoros talaje 1 ♂, 2 N1 ♂, 2 N Ornithodoros coniceps

Pigeon (in lab'y.)

Columba livia

France

France

1916

1916

E. Brumpt, Paris

E. Brumpt, Paris

C. W. det.

Note to 3355: 1 ♂ & 2 N picked from a lot totalling 3 ♂ 1 ♀ 7 N sent 16.VI.1916 to me by Dr. E. Brumpt of Paris, then with the army at Héricourt, Haute Saonne, France. He is studying their biology & finds:
Larvae gorge in 4-8 days on pigeon, placed at 25°C. they moult to nymphs in 5-6 days.
Nymphs (1st st.) refuse to feed, and whilst fasting moult after some days. The subsequent development to adults is normal, takes some months. Brumpt asks if we still consider O. coniceps only a var. of talaje.
 C.W. remarks (Vii.19) coniceps & capensis are light racial varieties of O. talaje, all 3 are essentially alike.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3356

N 3356

RML 112300

Amblyomma tuberculatum 2 ♂, 4 ♀, 1 N
(preserved dry)

2 ♂, 4 ♀ Amblyomma tuberculatum
(dry)

Gopherus polyphemus

Gopherus polyphemus

Washington County, Alabama, U.S.A.

Washington County (31.28 N, 88.16 W),
Alabama, U.S.A.

Posted 18.VII.1919

Posted 18.VII.1919

C. A. Cary, State Veterinarian
Livestock Sanitary Dept. of
Alabama, Auburn, Ala., U.S.A.

C. A. Cary, State Veterinarian
Livestock Sanitary Dept. of
Alabama, Auburn, Ala., U.S.A.

L. E. Robinson det. 3.VIII.1919

Cited & figured: Robinson (1926:
175-177).

"Land turtle commonly called 'gopher'
[ticks] attached to legs, head, neck
& soft part of body" many ticks
present.

An additional 1 ♂, 1 ♀ (pinned)
are in the BMNH collection.

Note N3356. Rec'd in box with
wool, 1 ♀ feebly alive, had
oviposited on journey. Shall try
to hatch eggs (This failed, G.H.F.N.
23.X.1919).

Rec'd. ackn'd. & Report sent 6.VIII.
1919.

Mr. Cary wrote 24.VIII.1919 giving
scientific name of host & stating
that it "is rather common on the
pine barrens & high lands in the
Southern States. It is quite a
large turtle & is often eaten by
natives..."

ORIGINAL DETERMINATIONCURRENT STATUS

N 3357

N 3357

RML 112301

Ornithodoros maroccanus ♂'s, ♀'s, N's4 ♂, 1 ♀, 5 N Ornithodoros erraticus

Bit pigs at night

Sus scrofaCollected in the Casba, Casablanca,
Morocco (in chinks of walls)Casablanca (33.37 N, 07.35 W),
Morocco

1.XII.1918

1.XII.1918

H. Velu, Major de 2^e Classe,
Chef du Laboratoire de Recherches
du Service de l'Élevage, Casablanca,
Morocco (Service Zootechnique et des
Epizootics)

H. Velu

Velu det., who presented them
(at my request) 4.X.1919

- (a) pickled when dead (badly preserved)
- (b) ♂'s killed in hot 70% alcohol
- (c) ♀'s killed in hot 70% alcohol

Note: N3357. Very closely allied
to O. talaje, some seen to have
moveable "cheeks" at capitulum sides,
the cheeks as though fragmented

C.W. & G.H.F.N.

N 3358

N 3358 MISSING

Aponomma gervaisi ♂'sVaranus bengalensis (on piece of skin)

Madras, India

1916

Dr. Sheriffs (Gift of Prof. White,
Dept. of Zool, Univ. of Wales, Bangor,
7.I.1920 per C. L. Walton).

C. W. det. 4.XII.1919.

3359-61. Sent by Mr. Buxton from Fairhill, Tonbridge, in 3 tubes, rec'd.
22.XII.1919:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	3359	N	3359
		RML	112302
	<u>Hyalomma ? syriacum</u> N's		9 N <u>Hyalomma</u> sp.
	<u>Hypocolius ampelinus</u>		<u>Hypocolius ampelinus</u>
	Amara, Mesopotamia		A1 Amarah (31.50 N, 47.09 E), Iraq
	24.VI.1918		24.VI.1918
	P. A. Buxton		P. A. Buxton
	C. W. det. 27.I.1920.		
N	3360	N	3360
		RML	112303
	<u>Rhipicephalus sanguineus</u> ♂		1 ♂ <u>Rhipicephalus sanguineus</u>
	<u>Felis chaus</u> ?		<u>Felis chaus</u> ?
	Amara Mesopotamia		A1 Amarah (31.50 N, 47.09 E), Iraq
	2.XII.1917		2.XII.1917
	P. A. Buxton		P. A. Buxton
	C. W. det. 27.I.1920.		
N	3361	N	3361
		RML	112304
	<u>Ixodes tenuirostris</u> ♀		1 ♀ <u>Ixodes alluaudi</u>
	<u>Crocidura</u> sp. (shrew)		<u>Crocidura</u> sp.
	Umkomoas, Natal		Umkomaas (30.12 S, 30.48 E), Republic of South Africa
	16.VII.1917		16.VII.1917
	P. A. Buxton		P. A. Buxton
	C. W. det. 27.I.1920.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3362

N 3362

RML 112305

Boophilus australis 1 ♂
♀'s gorged & ung.11 ♀ Boophilus microplus

Cattle

Cattle

Torilla Plains, Queensland, Australia

Probably vicinity of Torilla
hill (22.23 S, 150.03 E),
Queensland, Australia

15.V.1911

15.V.1911

C. A. Rogers

C. A. Rogers

C. W. det. 27.I.1920

Note: From the collection of F.S.W. Raikes, a Cambridge student killed in the war. Sent by his mother to Dr. A. E. Shipley, F.R.S. ca. 1917, who passed them onto me with other specimens 24 Jan. 1920. Raikes was a student at Trinity Coll. Camb., he took up Geology after showing promise at Zoology. A notebook that accompanied the specimens bore the date 1913.

G.H.F.N. 28.I.1920

N 3363

N 3363

RML 112306

Hyalomma syriacum 2 ♂'s2 ♂ Hyalomma aegyptium

Tortoise

Tortoise

Spagge-Brandon, Suffolk, England

Spagge-Brandon (52.22 N, 01.24 W)
Suffolk, England

27.III.1911

27.III.1911

F.S.W. Raikes

F.S.W. Raikes

C. W. Det. 27.I.1920.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3364	N	3364
		RML	112307
	<u>Aponomma laeve</u> var. <u>paradoxum</u> ♂'s		7 ♂, 4 L <u>Aponomma pattoni</u>
	<u>Zaocys mucosus</u> (snake)		<u>Ptyas mucosus</u>
	Bangalor, India		Bangalor (12.59 N, 77.35 E), India
	1920		1920
	Lt. Col. F. Wall, I.M.S.		Lt. Col. F. Wall, I.M.S.
	C. W. det. 5.II.1920.		Cited: Wall (1921: 186)
N	3365	N	3365
		RML	112308
	<u>Aponomma laeve</u> var. <u>paradoxum</u> N		1 N <u>Aponomma</u> sp.
	<u>Coluber helena</u> (snake)		<u>Elaphe helena</u>
	Bangalore, India		Bangalore (12.59 N, 77.35 E), India
	1920		1920
	Lt. Col. F. Wall, I.M.S.		Lt. Col. F. Wall, I.M.S.
	C. W. det. 5.II.1920		
N	3366	N	3366
		RML	112309
	<u>Aponomma laeve</u> var. <u>paradoxum</u> ♂'s, N, L's		5 ♂, 3 N, 4 L <u>Aponomma pattoni</u>
	<u>Naia tripudians</u> (snake)		<u>Naja naja</u>
	Bangalore, India		Bangalore (12.59 N, 77.35 E), India
	1920		1920
	Lt. Col. F. Wall, I.M.S.		Lt. Col. F. Wall, I.M.S.
	C. W. det. 5.II.1920.		

3367-3369a rec'd. 3.III.1920 from L. C. Heath, Esq., Namwala District. "All collected within 100 miles of Mumbwa-on the banks of the Kafue." Letter destroyed, dat. 20.I.1920. His address: see N 3029:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	3367	N	3367 MISSING
	<u>Amblyomma variegatum</u> ♂'s		
	Reed-buck		
	Namwala Distr. North Rhodesia		
	XII.1919		
	L. C. Heath		
	C. Warburton det. 5.III.1920.		
N	3368	N	3368
		RML	112310
	<u>Rhipicephalus tricuspis</u> 6 ♂, 3 ♀		6 ♂, 3 ♀ <u>Rhipicephalus tricuspis</u>
	Spring hare		<u>Pedetes capensis</u>
	Namwala Distr., North Rhodesia		Namwala District (16.00 S, 26.15 E), Zambia
	1919		1919
	L. C. Heath		L. C. Heath
	C. Warburton det. 5.III.1920.		
N	3369, a	N	3369a
		RML	112311
	(3369) <u>Amblyomma variegatum</u> ♂, ♀		(3369) MISSING
	(a) <u>Boophilus australis</u> 1 ♀		(a) 1 ♀ <u>Boophilus decoloratus</u>
	Cattle		Cattle
	Namwala Distr. North Rhodesia		Namwala District (16.00 S, 26.15 E), Zambia
	I.1920		I.1920
	L. C. Heath		L. C. Heath
	C. Warburton det. 5.III.1920.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3370

Hyalomma scupense 2 ♂, 2 ♀

Cattle

Usküb, Macedonia

II.1918

Determined by Dr. P. Schulze,
 Berlin Zool. Inst.
 Invalidenstr. 43, Berlin N.4.
 or Schillingstr. 80,
 Charlottenburg

Wrote & thanked 7.V.1920.

N 3370

RML 112312

 2 ♂, 2 ♀ Hyalomma detritum
 SYNTYPES of H. scupense

Cattle

 Skopje (42.00 N, 21.29 E),
 Macedonia, Yugoslavia

II.1918

 Schulze (1918: 62) original
 description of H. scupense

Note in vial "vulva on slide"

Prof. Dr. Leopold Ernst Paul
 Schulze (30.XI.1887 - 13.V.1949)
 well known authority on ticks.
 For an obituary see Hase (1950).

N 3371

Dermacentor reticulatus 26 ♂♂, 3 ♀♀,
 17 LL (unfed) with pinned specimens

Dog (experimentally raised)

Parasitol. Lab. Paris

Sent on 31.XII.1919

Prof. E. Brumpt

Determined by E. Brumpt & confirmed
 by C.W. & G.H.F.N. on our spec's.

Note to No. 3371. These caused
 piroplasmosis in Brumpt's dog No. 62
 (see his papers in Bull. Soc. Path.
Exot.) The few larvae gummed on
 card by me here had issued from eggs
 laid by 2 ♀♀ en route. A fine series
 of ♂♂, graded sizes.

N 3371

RML 112313

 23 ♂, 2 ♀, 16 L Dermacentor
reticulatus

Dog

Paris (48.52 N, 02.20 E), France

Sent on 31.XII.1919

Prof. E. Brumpt

Pinned specimens.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3372

Ornithodoros rostratus

4 adults with pinned spec's.

Raised in Paris through several generations

Originally from Matto Grosso, Brazil

Sent on 8.III.1920

Prof. E. Brumpt

Determined by Brumpt & confirmed by C.W. & G.H.F.N. on our spec's.

Note to N. 3372. Rec'd. dead & dry. Compared with N 1895 rec'd. from Aragão.

N 3372 MISSING

N 3373

Haemaphysalis bancrofti

Wallaby (near vent)

Queensland

VII.1919

Dr. J. F. Illingworth

C. W. det. ex I.B.E. No. 1107.

N 3373

RML 22292

3 ♀ Haemaphysalis bancrofti

Wallaby

Queensland, Australia

VII.1919

Dr. J. F. Illingworth

Six slides of dissections; 2 each of ♀ hypostome, legs I & IV, and spiracular plate.

3374-3385 From collection sent us for determination by the Musée du Congo Belge, Section des Sci. Nat. Tervuren, Belgium. Posted on 22.IV.1920 (Dr. H. Schouteden).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3374

Aponomma laeve 5 ♂

Snake (n. 535)

Bufwasenda

4.IX.1912

Dr. Christy

L.E.R. det. ex No. 7. Coll. No. 7.

N 3374

RML 112314

5 ♂ Aponomma latum

Snake (n. 535)

Bafwasende (01.05 N, 27.16 E),
Haut-Congo, Zaire

4.IX.1912

Dr. Christy

N 3375

Rhipicephalus simpsoni 2 ♂'s, ♀

Aulacodus swinderianus (Rodent)

Congo du Lemba

10.II.1914

R. Mayne'

C. W. det. Coll. No. 11a.

N 3375

RML 112315

2 ♂, 1 ♀ Rhipicephalus simpsoni

Thryonomys swinderianus

Congo du Lemba, Zaire
(locality not verified)

10.II.1914

R. Mayne'

Cited: Santos Dias (1958: 477)
who stated that these specimens
were "wrongly considered as
types." [?]

ORIGINAL DETERMINATIONCURRENT STATUS

N 3376

Amblyomma splendidum 2 ♂

Udder of Buffalo

Lukula

VIII.1911

Daniel

L.E.R. det. Coll. No. 14.

N 3377

Ixodes cavipalpus ♀

Kapiri

1912

Agric. Meiss.

C. W. Det. Coll. No. 29.

N 3378

Ixodes cavipalpus 2 ♀'s

Cephalophus sp.

Katanga

XI.1912

Legros

C. W. det. Coll. No. 30.

N 3376

RML 112316

2 ♂ Amblyomma splendidum

Syncerus caffer

Either Lukula (05.23 S, 12.57 E) or
(06.09 S, 26.41 E), Zaire

VIII.1911

Daniel

N 3377

RML 112317

1 ♀ Ixodes cavipalpus

Either Kapiri (09.42 S, 27.13 E)
or (10.18 S, 26.10 E), Nord-Katanga,
Zaire

1912

Agric. Meiss.

N 3378

RML 112318

2 ♀ Ixodes cavipalpus

Cephalophus sp.

Katanga, Zaire (locality not verified;
16 possible localities)

XI.1912

Legros

ORIGINAL DETERMINATIONCURRENT STATUS

N 3379

Amblyomma cuneatum
4 ♂'s, 4 ♀'s, 2 N's (n. 132)

Pangolin

Avakubi

28.IX.1912

Dr. Christy

L.E.R. det. Coll. No. 32.

N 3379

RML 112319

4 ♂, 4 ♀, 2 N Amblyomma compressumManis sp.

Avakubi (01.19 N, 27.33 E),
Haut-Congo, Zaire

28.IX.1912

Dr. Christy

Cited: Robinson (1926: 143).

N 3379X

See abnormalities

N 3379X

RML 112320

1 ♀ Boophilus decoloratus

Either Banana (01.22 N, 28.52 E), or
(06.01 S, 12.24 E), Zaire

11.I.1910

Dr. Etienne

This specimen is in a jar marked
"Tick Abnormalities".

N 3380

Aponomma exornatum

Oshwe

fin de XII.1913

Dr. J. Naes

L.E.R. det. Coll. No. 33.

N 3380

RML 112321

5 ♂ Aponomma exornatum

Either Oshwe (02.45 S, 18.59 E) or
(03.24 S, 19.30 E), Mai-Ndombe, Zaire

End of.XII.1913

Dr. J. Naes

ORIGINAL DETERMINATION

N 3381

Amblyomma tholloni ♂'s, ♀'s

Region des Lacs

Dr. Sagona

L.E.R. det. Coll. No. 53a.

N 3382

Amblyomma cohaerens ♂'s, ♀'s

Region des Lacs

Dr. Sagona

L.E.R. det. Coll. No. 53b.

N 3383

Dermacentor circumguttatus ♂'s, ♀'s

Region des Lacs

Dr. Sagona

C. W. det. Coll. No. 53c.

CURRENT STATUS

N 3381

RML 99177

8 ♂, 5 ♀ Amblyomma tholloni

Region des Lacs, Zaire
(locality not verified)

Dr. Sagona

Cited & figured: Robinson
(1926: 250, 251, 252); Hoogstraal
(1956a: 258).
An additional 1 ♂, 1 ♀ from this
lot are in the collection of
Dr. Harry Hoogstraal, NAMRU-3,
Cairo, Egypt.

N 3382

RML 112322

2 ♂, 2 ♀ Amblyomma cohaerens

Region des Lacs, Zaire
(locality not verified)

Dr. Sagona

N 3383

RML 112323

2 ♂, 2 ♀ Dermacentor circumguttatus

Region des Lacs, Zaire
(locality not verified)

Dr. Sagona

The above total includes 1 ♀
mounted on a slide with 1 ♂ from
N1902.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3384

Amblyomma tholloni ♂'s, ♀'s

Region des Lacs

Dr. Sagona

L.E.R. det. Coll. No. 54.

N 3384

RML 112324

4 ♂, 7 ♀ Amblyomma tholloniRegion des Lacs, Zaire
(locality not verified)

Dr. Sagona

Cited: Robinson (1926: 252).

N 3385

Amblyomma variegatum ♂'s, ♀'s

Prov. Elisabethville, Belgian Congo

12.XI.1911

Valdonis

L.E.R. det. Coll. No. 61.

N 3385 MISSING

N 3386

Haemaphysalis hystricis 1 ♂, 1 ♀Pashok, Darjiling district
E. Himalayas, 2500 ft.

L. C. Hartless

C. W. det. 27.V.1920

Ind. Mus. No. $\frac{2439}{17}$
(2 ♂, 1 ♀ ret'd.)3386-33. Pickings from collection
of Indian Museum, Calcutta, posted
to me by Dr. N. Annandale
17.V.1919. G.H.F.N.

N 3386

RML 112325

1 ♂, 1 ♀ Haemaphysalis hystricisPashok (27.04 N, 88.23 E), Darjeeling
District, India (762 m)

L. C. Hartless

Cited: Hoogstraal et al (1965c: 476)
with the collecting locality spelled
Pashol.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3387

N 3387

RML 112326

Rhipicephalus haemaphysaloides 1 ♂1 ♂ Rhipicephalus haemaphysaloidesPashok, Darjeeling district,
E. Himalayas, 2500 ft.Pashok (27.04 N, 88.23 E), Darjeeling
District, India (762 m).

L. C. Hartless

L. C. Hartless

C. W. det. 27.V.1920

Ind. Mus. No. $\frac{2439}{17}$ ^a
(1 ♂ returned).

N 3388

N 3388

RML 70139

Haemaphysalis birmaniae 13 ♂, 6 ♀11 ♂, 4 ♀ Haemaphysalis darjeeling
Including 1 ♂ Holotype, 1 ♀
Allotype and 10 ♂, 3 ♀ paratypesNemorhaedus bubalinus Hodg. (Bovidae)Capricornis sumatraensisPashok, Darjiling district,
E. Himalayas, at 1800 ft.Pashok (27.04 N, 88.23 E), Darjeeling
District, India (626 m).

L. C. Hartless

L. C. Hartless

C. W. det. 27.V.1920

An additional 2 ♂, 2 ♀ paratypes
are in the collection of Dr. H.
Hoogstraal, NAMRU-3, Cairo, EgyptInd. Mus. No. $\frac{2441}{17}$
(25 ♂, 6 ♀ returned)

N. B. ♀ new to science.

Hoogstraal & Dhanda (1970: 169)
original description.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3389

N 3389

RML 112327

Aponomma gervaisi var. lucasi
5 ♂, 1 ♀, 4 N5 ♂, 1 ♀, 3 N Aponomma varanensisvaranus nebulosusVaranus bengalensis

Calcutta

Calcutta (22.32 N, 88.22 E), India

3.VII.1916

3.VII.1916

C. W. det. 27.V.1920

Cited: Sharif (1928: 338).

Ind. Mus. No. $\frac{2430}{17}$
(many returned).

N 3390

N 3390

RML 112328

Dermacentor auratus 1 ♂1 ♂ Dermacentor sp.

Upper Burma

Burma

1916

1916

W. G. Rogers

W. G. Rogers

C. W. det. 27.V.1920

Cited: Sharif (1928: 292).

Ind. Mus. No. $\frac{2435}{17}$
(1 ♂ returned)

Specimen missing L.E.R. 5.VIII.1928.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3391

Amblyomma supinoi 2 ♂, 2 ♀Testudo elongata

Baradighi, Jalpaiguri district, Bengal

VIII.1916

W. L. Travers

L.E.R. det. 29.V.1920

Ind. Mus. No. $\frac{2424}{17}$
(Many ret'd.).

N 3391

RML 112329

2 ♂, 2 ♀ Amblyomma supinoiTestudo elongata

Baradighi (26.48 N, 88.44 E), India

VIII.1916

W. L. Travers

Cited: Sharif (1928: 325).

N 3392

Amblyomma supinoi 2 ♂, 1 NTestudo elongata

Baradighi, Jalpaiguri district, Bengal

VII.1916

W. L. Travers

L.E.R. det. 29.V.1920

Ind. Mus. No. $\frac{2431}{17}$
(1 ♀ & ♂'s ret'd.).

N 3392

RML 22317

2 ♂, 1 N Amblyomma supinoiTestudo elongata

Baradighi (26.48 N, 88.44 E), India

VII.1916

W. L. Travers

Cited & figured: Robinson (1926: 184, 186); Sharif (1928: 325).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3393

N 3393

RML 112330

Haemaphysalis cinnabarina
var. punctata 1 ♂1 ♂ Haemaphysalis punctata

Free (sheep about)

Free (sheep about)

On Downs, Eastbourne, England

On Downs, Eastbourne (50.48 N,
00.15 E), England

1.VI.1920

1.VI.1920

F. V. Rigal

F. V. Rigal

G.H.F.N. det. 3.VI.1920.

N 3394

N 3394

RML 112331

Ixodes anatis (?) ♂1 ♂ Ixodes anatisApteryx KiwiApteryx australis mantelliFar North of New Zealand: Mt. Ratea,
North Hokianga, near Broadwood
village, North Auckland, N.Z.Near Broadwood (35.16 S, 173.23 E),
Hokianga County, New Zealand

I.1920

I.1920

Sent by G. Harris (a farmer) to
Prof. Charles Chilton, who gave it
to us. 18.IX.1920Sent by G. Harris (a farmer) to
Prof. Charles Chilton, who gave it
to us. 18.IX.1920.

C. W. & G.H.F.N. det.

N. B. Probably the unknown ♂ of
I. anatis (= I. eudypitidis
Maskell ? type lost?).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3395

Haemaphysalis bispinosa 2 ♀

Cattle

N. Island, New Zealand

I.1920

Sent by G. Harris, a farmer,
to Prof. Chas. ChiltonNote by C.W. A large variant,
larger than type & with more
punctate scutum; similar to
Japanese form.Note by C.C. This "tick is giving
the farmers a lot of trouble just
now" writes the farmer to C.C.

N 3395

RML 112332

2 ♀ Haemaphysalis longicornis

Cattle

North Island, New Zealand

I.1920

Sent by G. Harris, a farmer,
to Prof. Chas. Chilton

N 3396

Ixodes ricinus 1 1Lacerta sp. attached in axilla

Marburg A/L. Germany

Sent 19.VIII.1920

Sent by Dr. Maynar, S. J.
Affällerstr. 3, Marburg A/L. Germany

G.H.F.N. det. 9.IX.1920.

N 3396

RML 112333

1 L Ixodes ricinusLacerta sp.Marburg (50.49 N, 08.46 E),
Federal Republic of Germany

Sent 19.VIII.1920

Sent by Dr. Mayar, S.J.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3397	N	3397	MISSING
	<u>Argas persicus</u>			
	Kazvin, N.W. Persia			
	VII.1919			
	P.A. Buxton.			
N	3398	N	3398	
		RML	112334	
	<u>Boophilus australis</u> 4 ♂'s (typic.), but ♂'s have no caudal appendage		4 ♂ <u>Boophilus microplus</u>	
	Cattle		Cattle	
	Remuna Horona		Remuna (06.41 N, 80.04 E), Sri Lanka	
	4.VII.1920		4.VII.1920	
	Mr. J. C. Hutson, Govt. Entomologist Ceylon, India. Gift of Imperial Bureau of Entomology, London		Mr. J. C. Hutson.	
	C. W. det. X.1920.			
N	3399	N	3399	
		RML	112335	
	<u>Amblyomma cyprium</u> 1 ♀		1 ♀ <u>Amblyomma cyprium</u>	
	<u>Cyclemis flav.</u>		<u>Geoemyda flavomarginata</u>	
	Kankan, Formosa		Kankan, Taiwan (locality not verified)	
	VII.1908		VII.1908	
	H. Sauter Ns. No. 157		H. Sauter Ns. No. 157	
	Berlin Mus. No. 672/1911		Cited & figured: Robinson (1926: 236).	
	L.E.R. det. XII.1920.			

ORIGINAL DETERMINATION

N 3400

Amblyomma triguttatum 1 ♂, 4 ♀'s

Kangaroo

Herberton Dist. Hinterland
von Colans Silver Valley,
North Queensland

Dr. Edlinger S.G. Ns, No. 272

Berlin Mus. No. 364/1913

L.E.R. det. XII.1920.

CURRENT STATUS

N 3400

RML 22319

1 ♂, 4 ♀ Amblyomma triguttatum

Kangaroo

Herberton (17.24 S, 145.23 E),
Queensland, Australia

Dr. Eddinger, S.G.

Robinson (1926: 57) incorrectly
gave this collection Berlin Museum
Number 364/1903 and Nuttall
number 272.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3401

Amblyomma cuneatum 1 ♂, 1 ♀Schuppentier ?

Lolodorf, Kamerun

29.III.1907

Lt. Jacob

Prof. Ziemann, G., Ns No. 89
Berlin Mus. No. 1600/07

L.E.R. det. XII.1920.

N 3401

RML 112338

1 ♂, 1 ♀ Amblyomma compressumManis sp.

Lolodorf (03.14 N, 10.44 E), Cameroon

29.III.1907

Lt. Jacob

Cited: Robinson (1926: 143).

N 3402

Argas vespertilionis

Off collector's leg

Amara on Tigris

VII.1918

W. E. Evans, Esq. (late Capt.,
R.A.M.C.) 38 Morningside Park,
Edinburgh, Scotland.

C. W. det. I.1921.

N 3402

RML 112339

1 ♂ Argas vespertilionisHomo sapiens

A1 Amarah (31.50 N, 47.09 E), Iraq

VII.1918

W. E. Evans

ORIGINAL DETERMINATIONCURRENT STATUS

N 3403

N 3403 MISSING

Amblyomma variegatum ♂

Nyasaland

20.X.1919

Dr. W. A. Lambourn

"This tick placed in a box with
Aucheromyia larvae promptly impaled
 one on its proboscis. Larva showed
 blood in its interior."

Gift of I.B.E. ex tube No. 1134

C. W. det. X.1920.

N 3404

N 3404

RML 112340

Amblyomma ovale 2 ♂'s2 ♂ Amblyomma ovaleEars of Galictis vittataEars of Galictis vittataJoinville, Humboldt Prov.,
Sta. Catharina, BrazilJoinville (26.18 S, 48.50 W),
Humboldt, Estado de Santa
Catharina, Brazil

22.XI.1915

22.XI.1915

W. Ehrhardt

W. Ehrhardt

L.E.R. det.

Cited: Robinson (1926: 29).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3405

N 3405

RML 112341

Amblyomma ovale 2 ♂'s2 ♂ Amblyomma ovaleNasus familiaris ? Canis familiaris
or Nasua socialisNasua nasua or Canis familiarisHumboldt Joinville, Sta. Catharina,
BrazilJoinville (26.18 S, 48.50 W),
Humboldt, Estado de Santa
Catharina, Brazil

5.VIII.1918

5.VIII.1918

W. Ehrhardt

W. Ehrhardt

L.E.R. det.

Cited: Robinson (1926: 29).

N 3406, a

N 3406

RML 112342

(3406) Rhipicephalus 2 N(3406) 2 N Rhipicephalus sp.(a) Hyalomma L's(3406) 1 N, 3 L Haemaphysalis sp.
(a) MISSING

Fieldmouse

Mus musculus

Tagbha, Tiberias, Palestine

En Sheva (32.52 N, 35.32 E), Israel

10.IX.1919

10.IX.1919

P. E. Schmitz

P. E. Schmitz

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3407

Ixodes loricatus ♀Didelphys cancrivoraJoinville, Humboldt, Prov. Sta.
Catharina, Brazil

10.XII.1915

W. Ehrhardt

C. W. det.

N 3407

RML 112343

1 ♀ Ixodes loricatusDidelphis marsupialisJoinville (26.18 S, 48.50 W),
Humboldt, Estado de Santa
Catharina, Brazil

10.XII.1915

W. Ehrhardt

N 3408

Ixodes loricatus ♀Didelphys auritaJoinville, Humboldt, Prov. Sta.
Catharina, Brazil

16.XII.1915

W. Ehrhardt

C. W. det.

N 3408

RML 112344

1 ♀ Ixodes loricatusDidelphis marsupialis auritaJoinville (26.18 S, 48.50 W),
Humboldt, Estado de Santa
Catharina, Brazil

16.XII.1915

W. Ehrhardt

ORIGINAL DETERMINATIONCURRENT STATUS

N 3409

N 3409

RML 112345

Amblyomma longirostre N2 N Amblyomma longirostreRamphastos discoloresRamphastos dicolorusJoinville, Humboldt, Prov. Sta.
Catharina, BrazilJoinville (26.18 S, 48.50 W),
Humboldt, Estado de Santa
Catharina, Brazil

18.X.1915

18.X.1915

W. Ehrhardt

W. Ehrhardt

L.E.R. det.

N 3410

N 3410

RML 112346

Amblyomma longirostre 2 N's2 N Amblyomma longirostreRamphastos discoloresRamphastos dicolorusJoinville, Humboldt, Prov. Sta.
Catharina, BrazilJoinville (26.18 S, 48.50 W),
Humboldt, Estado de Santa
Catharina, Brazil

4.VIII.1916

4.VIII.1916

W. Ehrhardt

W. Ehrhardt

L.E.R. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3411

N 3411

RML 112347

Amblyomma calcaratum 2 ♂'s2 ♂ Amblyomma calcaratumTamandua tetradactylaTamandua tetradactylaJoinville, Humboldt, Prov. Sta.
Catharina, BrazilJoinville (26.18 S, 48.50 W),
Humboldt, Estado de Santa
Catharina, Brazil

25.XI.1915

25.XI.1915

W. Ehrhardt

W. Ehrhardt

L.E.R. det.

N 3412

N 3412

RML 112348

Amblyomma N1 N Amblyomma sp.

Rats & Mice

Rats & Mice

Joinville, Humboldt, Prov. Sta.
Catharina, BrazilJoinville (26.18 S, 48.50 W),
Humboldt, Estado de Santa
Catharina, Brazil

VII.1918

VII.1918

W. Ehrhardt

W. Ehrhardt

L.E.R. det.

N 3412Z

N 3412Z MISSING

Ixodes ricinus NLacerta sp., attached to right axilla

Brieselang, near Berlin, Germany

17.IV.1921

Rev. Dr. J. Maynar, S.J., Kaiserallee
96 III, Berlin-Friedenau

G.H.F.N. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3413

Hyalomma aegyptium ♂'s, ♀

Cattle

Socotra Island prior to landing
at Zanzibar

15.III.1921

W. Mansfield-Aders, Economic
Biologist, Public Health Division,
Biological Section, Zanzibar,
E. Africa

C. W. & G.H.F.N. det.

N 3413

RML 112349

7 ♂ Hyalomma dromedarii
100 ♂, 8 ♀ Hyalomma impeltatum
5 ♂ Hyalomma truncatum

Cattle

Suqutra Island (12.30 N, 54.00 E),
Peoples Democratic Republic of Yemen,
prior to landing at Zanzibar Island
(06.10 S, 39.20 E), Tanzania

15.III.1921

W. Mansfield-Aders

Yeoman & Walker (1967) do not list
H. dromedarii as occurring in
Tanzania and I am aware of the remark
by Hoogstraal (1956a: 460) concerning
this species. However H. dromedarii
is found in Yemen and could easily
be imported on cattle.

N 3414

Dermacentor reticulatus var. niveus

Sheep

Ciudad Lineal Madrid, Spain

2.IV.1920

L. E. Robinson

N 3414

RML 112350

1 ♂ Dermacentor niveus

Sheep

Ciudad Lineal Madrid (40.24 N,
03.41 W), Spain

2.IV.1920

L. E. Robinson

A pinned specimen.

ORIGINAL DETERMINATION

N 3415

Amblyomma ovale 3 ♂, 3 ♀, 3 NCanis azarae

Assuncion, Paraguay

1904

Gift of Dr. A. Kotlán, Lecturer in
Parasitology, R. Hungarian
Veterinary College, Budapest
(rec'd. 9.VI.1921)

L.E.R. det. 9.VI.1921

L.E.R. det. 1926.

Reply sent 9.VI.1921 to Dr. Kotlán,
who kept duplicates & let me
keep these Nos.

N 3416

Amblyomma clypeolatum 2 ♂

Not known (probably tortoise)

Zool. Gdns., Budapest, Hungary

Date not known

Gift of Dr. A. Kotlan

L.E.R. det.

CURRENT STATUS

N 3415

RML 112351

3 ♂, 3 ♀ Amblyomma ovaleDusicyon gymnocercus

Asuncion (25.16 S, 57.40 W), Paraguay

1904

Gift of Dr. A. Kotlán

Cited: Robinson (1926: 29).

N 3416

RML 112352

2 ♂ Amblyomma clypeolatum

Not known (probably tortoise)

Zoological Gardens, Budapest
(47.30 N, 19.05 E), Hungary

Date not known

Gift of Dr. A Kotlán

Cited: Robinson (1926: 81)
but without Nuttall number.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3417

Dermacentor parumapertus 4 ♂, 4 ♀

Rabbit

California

1904

Sent for det. by L'pool School of
Trop. Med. (Prof. Newstead
F.R.S. No. 34, bulk returned)

C.W. & G.H.F.N. det.

N 3417

RML 112353

4 ♂, 4 ♀ Dermacentor parumapertus

Rabbit

California, U.S.A.

1904

Sent for determination by Liverpool
School of Tropical Medicine
(Prof. Newstead F.R.S., No. 34,
bulk returned.)

N 3418, a

(3418) Haemaphysalis bispinosa ♀
(a) Hyalomma aegyptium ♂, ♀

Hill mules

India

Sent X.1912

Sent by F. M. Howlett (No. 2)

Sent by F. M. Howlett, B.A. X.1912
from India, no further particulars.
He died 1921. Had not called for
return of these ticks so I now
incorporate them. His No's. 1, 6,
9, 12 are already incl. in part or
wholly under No's. 1903, 1904, 1979,
3331 q.v.

C.W. & G.H.F.N. det.

N 3418, a

RML 75981

(3418) 2 ♂ Haemaphysalis bispinosa
(a) 2 ♂ Hyalomma anatolicum anatolicum

Mules, hill

India

Sent X.1912

Sent by F. M. Howlett (No. 2)

ORIGINAL DETERMINATION

N 3419, a

(3419) Rhipicephalus sanguineus ♂, ♀(a) Haemaphysalis bispinosa ♂, ♀

Hill dog

India

Sent X.1912

Sent by F. M. Howlett (No. 3)

C.W. & G.H.F.N.

N 3420, a

(3420) Hyalomma aegyptium ♀(a) Rhipicephalus haemaphysaloides
♂, ♀

Hill pony

India

Sent X.1912

Sent by F. M. Howlett (No. 4)

C.W. & G.H.F.N. det.

CURRENT STATUS

N 3419, a

RML 112354

(3419) 2 ♂, 2 ♀ Rhipicephalus
sanguineus(a) 3 ♂, 1 ♀ Haemaphysalis bispinosa

Dog, hill

India

Sent X.1912

Sent by F. M. Howlett (No. 3)

N 3420, a

RML 112355

(3420) 1 ♂ Hyalomma marginatum isaaci
(a) 2 ♂, 1 ♀ Rhipicephalus
haemaphysaloides

Pony, hill

India

Sent X.1912

Sent by F. M. Howlett (No. 4)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3421, a	N	3421, a
		RML	75983
	(3421) <u>Rhipicephalus sanguineus</u> ♂, ♀		(3421) 1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	(a) <u>Haemaphysalis bispinosa</u> ♀		(a) 1 ♀ <u>Haemaphysalis bispinosa</u>
	Dog		Dog
	India		India
	Sent X.1912		Sent X.1912
	Sent by F. M. Howlett (No. 5)		Sent by F. M. Howlett (No. 5)
	C. W. & G.H.F.N. det.		
N	3422	N	3422
		RML	112356
	<u>Boophilus australis</u>		4 ♀, 1 N <u>Boophilus microplus</u>
	Hill cows		Cows, hill
	India		India
	Sent X.1912		Sent X.1912
	Sent by F. M. Howlett (No. 7)		Sent by F. M. Howlett (No. 7)
	C.W. & G.H.F.N. det.		
N	3423	N	3423
		RML	112357
	<u>Hyalomma aegyptium</u> ♀		2 ♂, 1 ♀ <u>Hyalomma anatolicum anatolicum</u> 1 ♂ <u>Hyalomma marginatum isaaci</u>
	Hare		<u>Lepus</u> sp.
	India		India
	Sent X.1912		Sent X.1912
	Sent by F. M. Howlett (No. 8)		Sent by F. M. Howlett (No. 8)
	C.W. & G.H.F.N. det.		Cited: Kaiser & Hoogstraal (1964: 277).

ORIGINAL DETERMINATION

N 3424, a

(3424) Hyalomma sp. larvae
(a) Rhipicephalus sanguineus ♂

Hill pony

India

Sent X.1912

Sent by F. M. Howlett (No. 9)

C.W. & G.H.F.N. det.

3424 & 3424a out of same lot as
N. 1979. q.v.

N 3425

Hyalomma aegyptium

Bullocks

Lahore, India

Sent X.1912

Sent by F. M. Howlett

C.W. & G.H.F.N. det.

3 lots combined by G.H.F.N.

CURRENT STATUS

N 3424, a

RML 112358

(3424) 5 N, 3 L Hyalomma sp.
(a) 1 ♂ Rhipicephalus sanguineus

Pony, hill

India

Sent X.1912

Sent by F. M. Howlett (No. 9)

N 3425

RML 112359

5 ♂, 3 ♀ Hyalomma anatolicum anatolicum
8 ♂, 20 ♀ Hyalomma dromedarii

Bullocks

Lahore (31.35 N, 74.18 E), Pakistan

Sent X.1912

Sent by F. M. Howlett

ORIGINAL DETERMINATIONCURRENT STATUS

N 3426

N 3426

RML 66651

Rhipicephalus sanguineus ♂, ♀26 ♂, 22 ♀, 10 N, 1 L Rhipicephalus sanguineus

Dog

Dog

Manila, Philippine Islds.

Manila (14.35 N, 121.00 E),
Philippines

Rec'd. 17.II.1912

17.IV.1911

M. B. Mitzmain

M. B. Mitzmain

C.W. det.

Collecting date taken from vial label.

N 3427

N 3427

RML 112360

Boophilus australis ♀'s1 ♂, 37 ♀ Boophilus microplus

Cattle

Cattle

Manila, Philippine Islds.

Manila (14.35 N, 121.00 E),
Philippines

17.IV.1911

17.IV.1911

M. B. Mitzmain (Rec'd. 17.II.1912)

M. B. Mitzmain (Rec'd. 17.II.1912)

C. W. det.

Note: 3 other lots of B. australis
thrown away 27.VII.1921 by me.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3428

Ixodes putus ♂'s, ♀'s, N's, L's
& eggs

Jan Mayen, Is. N. of Iceland

VIII.1921

W. S. Bristowe

L.E.R. det. 18.X.1921

Found on stones at foot of cliff
upon which sea-birds had been
resting.

N 3429

Amblyomma petersi 1 ♀

On acanthaceous shrub near stream
edge.

Kibwezi Kenia 2900 ft.

R. A. Dummer

C. Warburton det.

N 3430

Amblyomma testudinarium 2 ♀'s

Lushai Hills, Assam

X.1921

W.L.F. Nuttall

C. Warburton det.

N 3428

RML 112361

1 ♂, 1 ♀, 2 N, 2 L Ixodes uriae

Jan Mayen Island (71.00 N, 08.20 W),
Norway

VIII.1921

W. S. Bristowe

William Syer Bristowe (1901-1979).
Authority on spiders and pompilid
wasps. Author of "The Comity of
Spiders." Also an authority on
Sherlock Holmes.

N 3429

RML 112362

1 ♀ Amblyomma rhinocerotis

On acanthaceous shrub near stream
edge.

Kibwezi (02.25 S, 37.58 E),
Eastern Region, Kenya (884m)

R. A. Dummer

N 3430

RML 112363

2 ♀ Amblyomma testudinarium

Lushai Hills (23.10 N, 92.50 E),
Assam, India

X.1921

W.L.F. Nuttall

ORIGINAL DETERMINATIONCURRENT STATUS

N 3431

Hyalomma aegyptium ♀

Camel

Sibi, Baluchistan

XII.1921

W.L.F. Nuttall

C. Warburton det.

N 3431

RML 112364

1 ♀ Hyalomma dromedariiCamelus dromedarius

Sibi (29.33 N, 67.53 E), Pakistan

XII.1921

W.L.F. Nuttall

N 3432

Rhipicephalus maculatus var.
(like our 3352)Kenya Colony
No particulars

Col. Stordy (H.W. No. 12)

Sent by H. Wilkinson, Ent. Lab.
Kabete 14.IV.1922. Tubes sent
without particulars. Coll. by
Col. Stordy on Marsabit track
but diary lost.

C. Warburton det.

N 3432

RML 112365

2 ♂ Rhipicephalus humeralis

Kenya

Col. Stordy

ORIGINAL DETERMINATION

N 3433

Rhipicephalus kochi

Cattle

Nairasha, Kenya Colony

10.X.1921

H. Wilkinson (H.W. No. 7)

C. Warburton det.

N 3434

Rhipicephalus masseyi ♂, ♀, NInyala (an antelope) Tragelaphus angasi

Nkuzi R.

1.VIII.1921

H. H. Curson, Vet. Reg. Officer
Zululand (H.H.C.'s. No. 1234)

C. Warburton det.

CURRENT STATUS

N 3433

RML 112366

4 ♂, 4 ♀ Rhipicephalus hurti

Cattle

Naivasha (00.43 S, 36.26 E), Kenya

10.X.1921

H. Wilkinson (H.W. No. 7)

N 3434

RML 112367

3 ♂, 3 ♀ Rhipicephalus muehlensiTragelaphus angasiPerhaps Nkuzi Mt. (28.50 S, 29.21 E),
Zululand, Republic of South Africa

1.VIII.1921

H. H. Curson

ORIGINAL DETERMINATIONCURRENT STATUS

N 3435

Ixodes dentatus 6 ♂, 10 ♀
 ♂'s new. ♀'s show the var.
spinipalpis [lapás?] = dentatus

Rabbit

20.III.?

Presented by E. A. Chapin to whom
 Fisher had given these.

Hadwen det. VII.1922.

N 3435

RML 112368

6 ♂, 10 ♀ Ixodes dentatus

Rabbit

U.S.A.

20.III.?

Presented by E. A. Chapin to whom
 Fisher had given these.

N 3436

Rhipicephalus dux

Congo

From Hadwen's 720

C. W. det.

2 ♂, 1 ♀ (1 ♂ to be returned) to
 Dr. F. Larousse, Brumpt's Laboratory
 31.X.1927. Wrote him that his R.
schwetzi = R. dux in our opinion;
 stated we had 2 other lots in our
 collection (N1716, N2902a) of which
 I gave him particulars. Also gave
 him full reference to Donitz, W. 1910
 p. 275.

N 3436

RML 112369

9 ♂, 5 ♀ Rhipicephalus dux

Zaire

From Hadwen's 720

ORIGINAL DETERMINATIONCURRENT STATUS

N 3437

Amblyomma paulopunctatum

Red River hogs

Congo

Presented VII.1922

Presented by Hadwen

C. W. det.

L.E.R. det. 1926

N 3437

RML 112370

5 ♂, 4 ♀ Amblyomma paulopunctatumPotamochoerus porcus

Zaire

Presented VII.1922

Presented by Hadwen

This and other tick collections from the Lang-Chapin expedition were sent to S. Hadwen for identification. Bequaert (1930: 6) said that Hadwen sent part of this collection to Nuttall. Robinson (1926: 85) listed this collection from West Africa although the catalogue indicates Congo and collection data for another 5 ♂, 5 ♀ A. paulopunctatum in the RML collection cite Medje, Belgian Congo as the locality.

N 3438

Ornithodoros talaje

S. W. Africa

From Michaelens 12.

C. W. det.

N 3438

RML 112371

2 ♂, 5 ♀, 1 N Ornithodoros capensis

Penquins

Namibia

1911

From Michaelens 12.

Host and date taken from vial label.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3439, a

(3439) Argas reflexus
(a) Argas reflexus 6 sp. alive

Found between leaden roof and
stone roof of King's College
Chapel

(3439) 4.VIII.1922
(a) IV-V.1923

L. H. Mathews, King's A.D. Hobson
Christ's College, Cambridge

C.W. det.

N 3439

RML 112372

(3439) 1 ♀ Argas reflexus
(a) MISSING

Found between leaden roof and stone
roof of King's College Chapel,
Cambridge (52.13 N, 00.08 E), England

4.VIII.1922

L. H. Mathews, King's A.D. Hobson
Christ's College, Cambridge

Cited: Matthews & Hobson (1922: 313).

C.W. det.

N 3440

Amblyomma ovale ♂

Man

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 1) Medical
Director, Surinam Bauxite Co.,
Moengo, Surinam, S. America

C. Warburton det.
L.E.R. det. 1926

N 3440

RML 112373

1 ♂ Amblyomma ovale

Homo sapiens

Surinam

Posted 15.V.1922

Dr. C. Bonne

ORIGINAL DETERMINATIONCURRENT STATUS

N 3441

Amblyomma cajennense ♀

Man

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 2)

C. Warburton det.

N 3441

RML 112374

1 ♀ Amblyomma cajennenseHomo sapiens

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3442

Boophilus australis ♂'s, ♀'s

Cattle

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 3)

C. Warburton det.

N 3442

RML 112375

2 ♂, 10 ♀ Boophilus microplus

Cattle

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3443

Amblyomma mantiquirens ♂, ♀Dicotyles torquatus "Pakira"

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 4)

L. E. Robinson det.

N 3443

RML 112376

2 ♀ Amblyomma naponenseTayassu tajacu patira

Surinam

Posted 15.V.1922

Dr. C. Bonne

ORIGINAL DETERMINATIONCURRENT STATUS

N 3444

Aponomma sp. N

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 5)

C. W. det.

N 3444

RML 112377

1 N Amblyomma sp.

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3445

Amblyomma ovale

Jaguar

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 6)

L.E.R. det.

L.E.R. redet. 1926.

N 3445

RML 112378

1 ♀ Amblyomma ovaleFelis onca

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3446

Amblyomma goeldii ♀'sBoa sp.

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 7)

L.E.R. det.

N 3446

RML 112379

2 ♀ Amblyomma rotundatumBoa sp.

Surinam

Posted 15.V.1922

Dr. C. Bonne

ORIGINAL DETERMINATIONCURRENT STATUS

N 3447

Ixodes loricatus var. spinosus ♀Didelphis sp.

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 8)

C. W. det.

N 3447

RML 112380

2 ♀ Ixodes luciaeDidelphis sp.

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3448

Haemaphysalis cinnabarina larvaeDasyprocta agouti

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 9)

C. W. det.

N 3448

RML 112501

4 L Haemaphysalis sp.Dasyprocta aguti

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3449

Amblyomma mantiquirens ♂, ♀Dicotyles torquatus

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 10)

L.E.R. det.

N 3449

RML 112502

1 ♂, 1 ♀ Amblyomma naponenseTayassu tajacu patira

Surinam

Posted 15.V.1922

Dr. C. Bonne

ORIGINAL DETERMINATIONCURRENT STATUS

N 3450

Amblyomma mantiguirensDicotyles labiatus "Pingo"

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 11)

L.E.R. det.

N 3450

RML 112503

1 ♀ Amblyomma naponenseTayassu pecari

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3451

Amblyomma oblongoguttatumDicotyles labiatus "Pingo"

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 12)

L.E.R. det.

N 3451

RML 112504

1 ♀ Amblyomma oblongoguttatumTayassu pecari .

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3452

Amblyomma ovale ♂Galictus sp. (Carnivore: Mustelidae)
"Aira"

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 15)

L.E.R. det.

L.E.R. redet. 1926.

N 3452

RML 112505

1 ♂ Amblyomma ovaleProbably Eira barbara subsp.

Surinam

Posted 15.V.1922

Dr. C. Bonne

ORIGINAL DETERMINATIONCURRENT STATUS

N 3453

Amblyomma ovale ♂, ♀

Dog

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 16)

L.E.R. det.

L.E.R. redet. 1926.

N 3453

RML 112506

2 ♂, 1 ♀ Amblyomma ovale

Dog

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3454

Amblyomma calcaratum ♂Cicloturus didactylus ?
Small ant-eater

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 17)

L.E.R. det.

N 3454

RML 112507

1 ♂ Amblyomma calcaratumCyclopes didactylus

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3455

Amblyomma cajennense

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 18)

C. W. det.

N 3455 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 3456

Amblyomma ovaleGalictus sp.

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 19)

L.E.R. det.
L.E.R. redet. 1926.

N 3456

RML 112508

1 ♀ Amblyomma ovaleProbably Eira barbara subsp.

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3457

Amblyomma ovale

Jaguar

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 20)

L.E. Robinson det.
L.E.R. redet. 1926.

N 3457

RML 112509

2 ♀ Amblyomma ovaleFelis onca

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3458

Amblyomma mantiquirensDicotyles torquatus "Pakira"

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 21)

L. E. Robinson det.

N 3458

RML 112510

1 ♂ Amblyomma naponenseTayassu tajacu patira

Surinam

Posted 15.V.1922

Dr. C. Bonne

ORIGINAL DETERMINATIONCURRENT STATUS

N 3459

Amblyomma humeraleTestudo tabulata (Land turtle)

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 22)

L. E. Robinson det.

N 3459

RML 112511

2 ♂, 1 ♀ Amblyomma humeraleGeochelone denticulata

Surinam

Posted 15.V.1922

Dr. C. Bonne

Cited: Santos Dias (1958: 496).

N 3460

Amblyomma sp. (larvae)

Man

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 14)

L. E. Robinson det.

N 3460

RML 112512

1 L Amblyomma sp.Homo sapiens

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3461

Amblyomma cajennense ♂, ♀ (in copula)

Tapir

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 23)

C. Warburton det.

N 3461

RML 112513

1 ♀ Amblyomma cajennenseTapirus sp.

Surinam

Posted 15.V.1922

Dr. C. Bonne

ORIGINAL DETERMINATIONCURRENT STATUS

N 3462

Amblyomma calcaratum

Cycloturus didactylus Small ant-eater

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 24)

L.E.R. det.

N 3463

Amblyomma ovale

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 25)

L.E.R. det.

L.E.R. redet. 1926

N 3464

Amblyomma cajennense

Man (on ear)

Surinam

Posted 15.V.1922

Dr. C. Bonne (No. 26)

C. W. det.

N 3462

RML 112514

1 ♂, 1 ♀ Amblyomma calcaratum

Cyclopes didactylus

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3463

RML 112515

1 ♂ Amblyomma ovale

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3464

RML 112516

1 ♂ Amblyomma cajennense

Homo sapiens

Surinam

Posted 15.V.1922

Dr. C. Bonne

ORIGINAL DETERMINATIONCURRENT STATUS

N 3465
Amblyomma cajennense ♂, N
 Surinam
 Posted 15.V.1922
 Dr. C. Bonne (No. 28)
 L.E.R. det.

N 3465 MISSING

N 3466
Amblyomma sp. N's
 Surinam
 Posted 15.V.1922
 Dr. C. Bonne (No. 29)
 C. W. det.

N 3466
 RML 112517
 1 N Amblyomma sp.
 Surinam
 Posted 15.V.1922
 Dr. C. Bonne

N 3467
Amblyomma cajennense
 Surinam
 Posted 15.V.1922
 Dr. C. Bonne (No. 30)
 C. W. Det.

N 3467 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 3468

Amblyomma coelebs

Tapir (young)

Surinam

Posted 15.V.1922

Dr. D. Bonne (No. 36)

L.E.R. det.

N 3468

RML 112518

2 ♂ Amblyomma coelebsTapirus sp.

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3469

Amblyomma testudinarium ♀

Found free

In jungle, Tripura State, India

1921

W.L.F. Nuttall, D.F.C.
Son of G.H.F.N.

L.E.R. & C.W. det.

N 3469

RML 112519

1 ♀ Amblyomma testudinarium

Found free

Tripura State (24.00 N, 92.00 E),
India

1921

W.L.F. Nuttall

ORIGINAL DETERMINATIONCURRENT STATUS

N 3470

Boophilus annulatus 2 ♀Bos taurus

Jacksonville, Florida, U.S.A.

1918

U.S. Bureau of Animal Industry,
Washington, D.C.

Gift of Dr. S. Hadwen, 1922.

No. 18774 B.A.I. (Staff det'd.)

N 3470

RML 112520

2 ♀ Boophilus microplusBos taurusJacksonville (30.20 N, 81.40 W),
Florida, U.S.A.

1918

U.S. Bureau of Animal Industry,
Washington, D.C.

Gift of Dr. S. Hadwen, 1922.

N 3471, a, b

(3471) Rhipicephalus falcatus ♂, ♀
(leaning to supertritus)(a) Rhipicephalus simus 1 ♀(b) Haemaphysalis leachi

Africa ? Nyasaland

Rec'd. by me 7.V.1921. Parcel
"Damaged by sea water," no stamps,
sender unknown up to now. 4.X.1922

C. W. det.

(b) 1 ♂ to Prof. R. Matheson, Cornell
27.V.19291 ♂ to Dr. A. C. Reed,
San Francisco 30.V.19291 ♂ to Prof. J. Drbohlav, Prague
30.V.19291 ♂ to Prof. E. Malvoz, Liège
30.V.19291 ♂ to E. T. Boardman, Univ. of
Florida, Gainesville 30.V.1929.

N 3471, a, b

RML 112521

(3471) 19 ♂, 9 ♀ Rhipicephalus kochi(a) 1 ♂ Rhipicephalus simus(b) 14 ♂, 8 ♀ Haemaphysalis leachi

Africa ? Malawi

Rec'd. by me 7.V.1921. Parcel
"Damaged by sea water," no stamps,
sender unknown up to now. 4.X.1922Two females of R. kochi with genital
apertures removed. Tentative ID.
Possibly R. hurti also in this
collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3472

Ornithodoros crossi

Camelus. Many in cracks of walls in stables.

Murree Hills, ca 5000 ft alt., ca 30 miles north of Rawalpindi, N. Punjab, India

Sent me on 1.VIII.1922

Capt. H. E. Cross, I.C.V.D., Camel specialist, Sohawa District, Jhelum, Punjab, India

C. W. det. XI.1922

Note: Captain Cross writes (1.VIII.1922) that Prof. E. Brumpt informs him that he "proposes to name them O. crossi." Mr. Pool now (5.X.1922) working in the Molteno Institute tells me that Cross has published a paper in India on "the cyclical transmission of Surra in camels" by this tick. I am writing to Cross about this. See Warburton (1918) Parasitology X. p. 287, fig. 3.

N 3473

Haemaphysalis cinnabarina

Bos taurus

Jaffa, Palestine

III.1922

P. A. Buxton, M.A. (Cantab.) Jerusalem

G.H.F.N. & C.W. det.

N 3472

RML 112522

2 ♂, 2 ♀, 3 N Ornithodoros tholozani

Camelus dromedarius. Many in cracks of walls in stables.

Murree (33.54 N, 73.24 E), Pakistan (1524 m)

Sent me on 1.VIII.1922

Capt. H. E. Cross, I.C.V.D., Camel specialist, Sohawa District Jhelum, Punjab, India

The publication referred to is Cross & Patel (1921).

N 3473

RML 112523

1 ♀ Haemaphysalis punctata

Bos taurus

Tel Aviv (32.04 N, 34.46 E), Israel

III.1922

P. A. Buxton

Tentative ID. Cited: Buxton (1924: 329).

ORIGINAL DETERMINATION

N 3474, a-c

(3474) Rhipicephalus maculatus

(a) Rhipicephalus simus
 (b) Rhipicephalus appendiculatus
 (c) Amblyomma hebraeum 2 ♂

Phacochoerus aethiopicus (Wart Hog)

Lower Omfolozi, Zululand, Natal

25.V.1922

Laurence Hill (No. 36), Vet. Res.
 Dept., P.O. Box 405,
 Pietermaritzburg, S. Africa

Sent 31.VII.1922

C. W. det.

N 3475, a

(3475) Amblyomma hebraeum 3 ♂
 (a) Rhipicephalus appendiculatus ♀

Tragelaphus scriptus sylvaticus
 (Bushbuck)

Lower Omfolozi, Zululand, Natal

21.V.1922

Laurence Hill (No. 283)

C. W. det.

CURRENT STATUS

N 3474, a-c

RML 112524

(3474) 18 ♂, 6 ♀ Rhipicephalus maculatus
 (3474) 1 ♂ Rhipicephalus appendiculatus
 (a) 6 ♂, 2 ♀ Rhipicephalus simus
 (b) 1 ♂, 2 ♀ Rhipicephalus longus
 (c) 2 ♂ Amblyomma hebraeum

Phacochoerus aethiopicus

Lower Omfolozi, Zululand (28.00 S,
 32.00 E), Republic of South Africa

25.V.1922

Laurence Hill

N 3475, a

RML 112525

(3475) 3 ♂ Amblyomma hebraeum
 (a) 1 ♀ Rhipicephalus appendiculatus

Tragelaphus scriptus

Lower Omfolozi, Zululand (28.00 S,
 32.00 E), Republic of South Africa

21.V.1922

Laurence Hill

ORIGINAL DETERMINATIONCURRENT STATUS

N	3476, a	N	3466, a MISSING
	(3476) <u>Amblyomma hebraeum</u>		
	(a) <u>Amblyomma marmoreum</u> (v. fine spec.)		
	<u>Rhinoceros bicornis</u> (Black Rhinoceros)		
	Lower Omfolozi, Zululand, Natal		
	29.V.1922		
	Laurence Hill (No. 305)		
	C. W. det.		
N	3477	N	3477 MISSING
	<u>Amblyomma hebraeum</u>		
	<u>Bos caffer</u> (Cape Buffalo)		
	Lower Omfolozi, Zululand, Natal		
	18.V.1922		
	Laurence Hill (No. 252)		
	C. W. det.		
N	3478	N	3478
		RML	112526
	<u>Aponomma exornatum</u>		5 ♂, 1 ♀ <u>Aponomma exornatum</u>
	Tree Iguana		Iguana, tree
	Empangeni, Zululand, Natal		Empangeni (28.45 S, 31.54 E), Zululand, Republic of South Africa
	30.I.1922		30.I.1922
	Laurence Hill (No. 73)		Laurence Hill
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3479, a

N 3479, a

RML 112527

(3479) Haemaphysalis leachi
 (a) Rhipicephalus sanguineus N's

(3479) 2 ♀ Haemaphysalis leachi
 (a) 2 N Rhipicephalus sp.

Herpestes gracilis typicus (Mongoose)Herpestes sp.

Empangeni, Zululand, Natal

Empangeni (28.45 S, 31.54 E),
Zululand, Republic of South Africa

VI.1921

VI.1921

Laurence Hill (No. 167)

Laurence Hill

C. W. det.

N 3480

N 3480 MISSING

Rhipicephalus evertsi

Zebra

Empangeni, Zululand, Natal

23.IX.1921

Laurence Hill (No. 171)

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3481, a, b
 (3481) Amblyomma hebraeum
 (a) Rhipicephalus evertsi
 (b) Boophilus decoloratus ♂'s, ♀'s
 Cattle, Horses, Dog
 Empangeni, Zululand, Natal
 IX.1922
 Laurence Hill (No. 186)
 C. W. det.
 (3481) 1 ♂ to Prof. D'Arcy Thompson
 XI.1931
 (a) 2 ♂, 2 " to Prof. R. A. Cooley,
 Montana V.1928.

N 3482, a
 (3482) Rhipicephalus sanguineus
 (a) Haemaphysalis leachi
Erinaceus roumanicus
 Jerusalem, Palestine
 3.VII.1922
 P. A. Buxton, M.A. (No. 528)
 C. W. det.

N 3481, a, b MISSING

The ticks were sent from South Africa on 31.VII.1922 (see N 3474). Therefore the collection date is in error and should probably be IX.1921.

The specimens sent to Prof. Cooley are now in the RML collection (RML 66883).

N 3482, a
 RML 112528
 (3482) 1 ♂, 3 N Rhipicephalus sanguineus
 (a) 1 ♂ Haemaphysalis erinacei
Erinaceus europaeus
 Jerusalem (31.46 N, 35.14 E), Israel
 3.VII.1922
 P. A. Buxton, M.A.
 Cited: Buxton (1924: 329).
 (a) cited: Hoogstraal (1955c: 223).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3483	N	3483
		RML	112529
	<u>Boophilus annulatus</u> ♀		1 ♀ <u>Boophilus annulatus</u>
	<u>Bos taurus</u>		<u>Bos taurus</u>
	Beisan, Palestine		Bet Shean (32.30 N, 35.30 E), Israel
	VII.1922		VII.1922
	P. A. Buxton, M.A.		P. A. Buxton, M.A.
N	3484	N	3484
		RML	112530
	<u>Rhipicephalus sanguineus</u> ♀		1 ♀ <u>Rhipicephalus sanguineus</u>
	On grass		On grass
	Jerusalem, Palestine		Jerusalem (31.46 N, 35.14 E), Israel
	15.III.1922		15.III.1922
	P. A. Buxton, M.A.		P. A. Buxton, M.A.
	C. W. det.		
N	3485	N	3485
		RML	112531
	<u>Rhipicephalus sanguineus</u> ♂, ♀'s		1 ♂ <u>Rhipicephalus sanguineus</u> 2 ♀ <u>Rhipicephalus turanicus</u>
	<u>Equus caballus</u>		<u>Equus caballus</u>
	Nazareth, Galilee		Nazareth (32.42 N, 35.18 E), Israel
	24.V.1922		24.V.1922
	P. A. Buxton, M.A.		P. A. Buxton, M.A.
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3486

Hyalomma syriacumAgama

Nazareth, Galilee

24.V.1922

P. A. Buxton, M.A.

C. W. det.

N 3486

RML 112532

1 ♀ Hyalomma aegyptiumAgama sp.

Nazareth (32.42 N, 35.18 E), Israel

24.V.1922

P. A. Buxton, M.A.

Cited: Buxton (1924: 330).

N 3487

Rhipicephalus sanguineus ♂'s, ♀'s,
N's

Honolulu, Hawaiian Isl's.

Rec'd. 12.IX.1921

Dr. E. M. Ehrhorn, Division of
Entomol., Board of Commissioners
of Agric. & Forestry, Honolulu,
Hawaiian Islands.

C. Warburton det.

N 3487

RML 112533

8 ♂, 9 ♀, 93 N, 1 L Rhipicephalus
sanguineusHonolulu (21.19 N, 157.52 W),
Hawaii, U.S.A.

Rec'd. 12.IX.1921

Dr. E. M. Ehrhorn

ORIGINAL DETERMINATIONCURRENT STATUS

N 3488

Undetermined genus

Havana Cuba in Caves on ground among
bat dung

Sent to me 26.VIII.1922

Dr. Cabrera

Sent by Dr. Walther Horn, Gosslerstr.
20. Berline-Dahlem, Germany for
determination.

Note: 10 specimens of a remarkable
new genus or family of ticks of
which we may keep 1/3. Dr. Cabrera,
according to Dr. Horn could not find
out if they lived on bats. We should
ask Horn the name of the cave & to
try & get more specimens as these
rotted & most filthy having to be
scraped off.

N 3489

Amblyomma supinoi 2 ♀

Tortoise

In sender's garden, Rangoon, Burma

Sent to me 30.VI.1922

Dr. H. H. Marshall
16 Kokine Road, Rangoon

L.E.R. det. X.1922.

N 3488 MISSING

These were undoubtedly specimens of
the genus Antricola Cooley & Kohls,
1942.

N 3489

RML 112534

1 ♀ Amblyomma supinoi

Tortoise

Rangoon (16.47 N, 96.10 E), Burma

Sent 30.VI.1922

Dr. H. H. Marshall

ORIGINAL DETERMINATIONCURRENT STATUS

N 3490

Amblyomma tuberculatum 1 ♂, 1 ♀

Land tortoise

Pensacola, Florida, U.S.A.

1916

C. A. Carey

Gift of S. Hadwen X.1922

C. W. det.

N 3490

RML 112535

1 ♂, 1 ♀, 1 N Amblyomma tuberculatum

Tortoise, land

Pensacola (30.25 N, 87.13 W),
Florida, U.S.A.

1916

C. A. Carey

N 3491

Amblyomma cuneatum 1 ♀

Hylochoerus

Congo Exped.

X.1913

American Mus. of Nat. Hist. "672"
"A. kaul" (= illegible at end)
Lang-Chapin

Gift of S. Hadwen X.1922

L.E.R. det.

N 3491

RML 112536

1 ♀ Amblyomma compressum

Hylochoerus meinertzhageni

Zaire

X.1913

American Museum of Natural History
"672"

Cited: Robinson (1926: 143).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3492

Amblyomma dissimile 2 ♂Iguana iguana

Central America

W. L. Brown

Gift of S. Hadwen X.1922

L.E.R. det.

N 3492

RML 112537

2 ♂ Amblyomma dissimileIguana iguana

Central America

W. L. Brown

N 3493

Amblyomma maculatum 1 ♂Bos taurus

Baton Rouge, La., U.S.A.

VIII.1916

S. Hadwen

Gift of S. Hadwen X.1922

C. W. det.

N 3493

RML 112538

1 ♂ Amblyomma maculatumBos taurusBaton Rouge (30.23 N, 91.11 W),
Louisiana, U.S.A.

VIII.1916

S. Hadwen

N 3494

Aponomma pattoni 2 ♂, 1 ♀

Snake

India

Major W. S. Patton

Gift of S. Hadwen X.1922

W. S. Patton. det.

N 3494

RML 112539

2 ♂, 1 ♀ Aponomma pattoni

Snake

India

Major W. S. Patton

Cited: Kaufmann (1972: 318)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3495

Dermacentor auratus 2 ♂

"Pig"

Tennascrinis, Tanjong Badek

IX.1897

Abbott

Gift of S. Hadwen X.1922

C. W. det.

N 3495

RML 112540

2 ♂ Dermacentor sp.

Pig

Tennascrinis, Tanjang Badek
(locality not verified) Questionably
Malaysia

IX.1897

Abbott

N 3496

Dermacentor nitens

Bishopp's gift to S. Hadwen

Gift of S. Hadwen X.1922

C. W. confirmed.

N 3496

RML 112541

4 ♂, 3 ♀ Anocentor nitens

Bishopp's gift to S. Hadwen

N 3497

Dermacentor nitens ♂, ♀

Hayti

N. Banks' gift to S. Hadwen

C. W. det.

N 3497

RML 112542

1 ♀, 1 N Anocentor nitens

Haiti

N. Banks' gift to S. Hadwen

ORIGINAL DETERMINATIONCURRENT STATUS

N 3498

Dermacentor nigrolineatus
1 ♀ (unpinned)

Catskills, New York, U.S.A.

N. Banks' gift to S. Hadwen

Gift of S. Hadwen X.1922

C. W. det.

N 3498

RML 112543

1 ♀ Dermacentor albipictusCatskill Mountains (42.10 N,
74.30 W), New York, U.S.A.

N. Banks' gift to S. Hadwen

N 3499

Dermacentor parumapertus 3 ♂

Santa Rosa Mts., California, U.S.A.

N. Banks' gift to S. Hadwen

Gift of S. Hadwen X.1922.

N 3499

RML 112544

3 ♂ Dermacentor parumapertusSanta Rosa Mountains, California,
U.S.A. (locality not verified).
Perhaps vicinity of Santa Rosa
(38.26 N, 122.43 W).

N. Banks' gift to S. Hadwen

N 3500

Dermacentor marginatus 1 ♂, 3 ♀

Brownsville, Texas, U.S.A.

N. Banks' gift to S. Hadwen

Gift of S. Hadwen X.1922

C. W. det.

N 3500

RML 112545

1 ♂, 2 ♀ Dermacentor parumapertusBrownsville (25.54 N, 97.30 W),
Texas, U.S.A.

N. Banks' gift to S. Hadwen

List of Abnormalities in Collection

- 186b Boo. australis 1 ♂, with reduced anal plates on one side. See Fig. 21, Parasitology, Vol. II, p. 74. (1909). Off cat, Borlasgama, Ceylon, XII.1906. Colonel B. Skinner. Slide!
- 654 Rhip. sanguineus 1 ♂, off dog, Accra, West Africa, VI.1908. Dr. W. M. Graham. [Two ani and three spiracles.] Slide! Described in Parasitology II, 75, figs. 25-26- (1909).
- 306 Boo. decoloratus 1 ♂, raised in Cambridge, II.1908; stock rec'd. from Mr. C. P. Lounsbury, Cape Colony, S. Africa, VII.1907. [Two ani and two spines]. Slide! Described in Parasitology, II, 74, fig. 22 (1909).
- 2153 Haem. bispinosa 1 ♂, "22b" from India. No data. [With unequal palps]. Slide! Mentioned in Parasitology, II, p. 70 (foot), 1909).
- 26c Hyal. aegyptium 1 ♂, off goat, Germiston, Transvaal, S. Africa, IV.1906. Dr. G. Y. Brock. [Showing abnormality of posterior portion of venter]. Described in Parasitology, II, 71, fig. 18, (1909).
- 2151 Haem. punctata 1 ♀, off sheep, Lydd, Kent, 23.III.1905. Mentioned in Parasitology, II, 71, (1909)
- 2152 Haem. punctata ♀, off sheep, Littlebourne, Kent; rec'd. 15.IV.1905. Mentioned in Parasitology, II.71, (1909).
- 918 Ix. hexagonus 1 ♀, off hedgehog, Grantchester, Cambs, 15.VIII.1906. [Possesses a curious scutum.]
- 948 Rhip. appendiculatus 1 ♂, rec'd. from Mr. C. P. Lounsbury, Cape Colony, S. Africa, 20.XII.1909. [Possesses two anal orifices.] Described in Parasitology (Oct. 1914) vol. VII, p. 250, fig. 1.
- 1085 Haem. leachi 1 ♂, off Canis aureus, Museum Compound, Calcutta, India, 1911. (Ex Indian Mus. coll $\frac{5994}{10} - \frac{5995}{10}$) [Deformed] Described in Parasitology (Oct. 1914) vol. VII, p. 252, fig. 3.
- 1210 Rhip. sanguineus 1 ♂ off dog, Puri, Orissa Coast, Bengal, India; 1911. (Ex Ind. Mus. $\frac{819}{197a}$). [Abnormal] Described in Parasitology (Oct. 1914) vol. VII, p. 252, fig. 4.

- 1446 Rhip. pulchellus 1 ♂, off rhinoceros, Yatta Plains, Ukamba Province, B.E. Africa, 6.VIII.1910. S.W.J. Scholefield coll. [Deformed: Described in Parasitology (Oct. 1914) vol. VII, p. 255, fig. 8.]
- 1542b Ix. caledonicus 1 ♀, from dove-cot, Dunipace, Stirlingshire Scotland, 25.V.1911. W. Evans coll. [Deformed: Described in Parasitology (Oct. 1914) vol. VII, p. 251, fig. 2.]
- 1581 Rhip. appendiculatus 1 ♂, off cattle, Nbarra, Ankole, Uganda, Africa, I.1911. Dr. C. H. Marshall. [Abnormal: (not worth fig. or descr., adanal plates poorly developed.)]
- 1596 Boo. annulatus 1 ♂, off cattle, Boston, Mass, U.S. America, 1912. "T.F.R." [Deformed: (not worth fig. or descr., adanal plates poorly developed, p. 255, fig. 9.)]
- 1605 Boo. decoloratus 1 ♂, off "Kudu," Mombiras, N. Nyasa, B.C. Africa, 25.II.1908. Dr. J. B. Davey. [Abnormal: (not worth fig. or descr. adanal plates not well developed.)]
- 2150 Hyal. aegyptium 1 ♂, off bullock Lahore, Punjab, India, IV.1913. Major G. K. Walker. [Abnormal: 5 legs on one side]. (not worth fig. or descr. adanal plates not well developed p. 257, fig. 11.)
- 1683 Rhip. sanguineus 1 ♂, off Vulpes cucopus, Bhey, Cutch, India, 1911. C. A. Crump. "Kinnear 441." [Deformed: (not worth fig. or descr. adanal plates not well developed, p. 253, fig. 5.)]
- 2286 Rhip. bursa 1 ♀ (unfed), off horse, Tangiers, Morocco, North Africa, VII.1913. Dr. I. Jejamant. [Normal unfed ♀ with spermtophore attached to vulva]. Not abnormal!
- 2622 Haem. leachi 1 ♀, off dog, Entebbe, Uganda, E. Africa, 20.IV.1913 C. C. Gowdey. [Normal partly-fed ♀ with spermatophore]. Not abnormal!
- 2553 Ix. ricinus ♂'s ♀'s, off goats, Smyrna, Asiatic Turkey, XI.1913. W.H.J. van Heemstra. [Specimens possess humped tarsi.]. Not abnormal!
- 2553a Haem. punctata ♂'s ♀s, off goats, Smyrna, Asiatic Turkey, XI.1913. Not abnormal!
- 2554 Haem. punctata ♂ 2 ♀s, off sheep, Smyrna, Asiatic Turkey, XI.1913. W.H.J. van Heemstra. [♂ with spine.]. Not abnormality.

- 2735 Ixodes hexagonus or ricinus sp. N (probably) found beneath the skin of a fox (sack unopened) (below the ear), at Llanrhystyd, Cardiganshire, Wales, III.1914. Rec'd from Professor C. L. Walton, University College of Wales, Aberystwyth, 10 March 1914. Not abnormality.
- 240 Ambly. marmoreum 1 ♂, off ? Khartoum, Sudan, 1908. Dr. A. Balfour (abnormal!) coll. (specimen pinned). Described in Parasitology (Oct. 1914) vol. VII, p. 254, fig. 7.
- 2413a Ambly. hebraeum 1 ♀ abnormal. off cow, Namachacha, Portuguese E. Africa, 28.VII.1913, Dr. J. B. Botelks coll. (Worth describing some day, has much deformed scutum & spiracle). 2413a, Described by L. E. Robinson in Parasitology XII (1920) p. 175.
- 351 Rhipicephalus longiceps Nuttall & Warburton 1 ♂ from type lot, off Klippspringer bok, Cephalophus grimmi, Benguela, Angola, 1907, Dr. F. C. Wellman coll. Described by L. E. Robinson in Parasitology XII.(1920) p. 253, fig. 6.
- 3347 Hyalomma aegyptium 1 ♀ deformed off Hemitragus hitocrius, Cochin State 1914. Indian Museum. Described by L. E. Robinson, in Parasitology XII.(1920) p. 178.
- 3379 Boophilus decoloratus 1 ♀ from Banana, Belgian Congo, 11.I.1910, Dr. Etienne, No. 1 Envoi. "191" at 025 (our no.) rec'd April 1920 from Musee du Congo Belge, Tervueren, Belgium (Dr. H. Schouteden) shows abnormality of leg: triplicated!

The Nuttall Tick Catalogue
Volume III, Nos. 3501-3972

Catalogue of Ticks

Vol. III

collected by

George H. F. Nuttall

Quick Professor of Biology, Director of the Molteno Institute
for Research in Parasitology, Cambridge.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3501

N 3501

RML 112546

Ornithodoros lahorensis 1 N1 N Ornithodoros lahorensis

On goat-skin mat

On goat-skin mat

Lahore, Punjab, India

Lahore (31.35 N, 74.18 E), Pakistan

Gift of S. Hadwen 1922

Gift of S. Hadwen 1922

S. H. det. C. W. confirmed.

This tick procured for Dr. Hadwen the local reputation of a Sherlock Holmes. A friend in Canada brought it to him with the remark "Well you can't tell me what this is." Dr. Hadwen said "It is Ornithodoros lahorensis, which infects goats in the Punjab:" The friend had found it in a goat-skin mat which his father had recently sent him from Lahore!

C. W. 4.XII.1922.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3502

Dermacentor andersoni ♂'s, ♀'s

Okanagan Falls, B.C., Canada

V.1913

Rothschild coll.

Gift of S. Hadwen, 1922

S. H. det. C. W. conf.

N 3502

RML 112547

7 ♂, 9 ♀ Dermacentor andersoniOkanagan Falls (49.21 N, 119. 31 W),
British Columbia, Canada

V.1913

Rothschild coll.

N 3503

Dermacentor andersoni 1 ♂, 1 ♀

Bozeman, Montana, U.S.A.

Gift of N. Banks to S. Hadwen
& latters gift to us 1922N. Banks det. (C. W. & S. H.
confirmed).

N 3503

RML 112548

1 ♂, 1 ♀ Dermacentor andersoniBozeman (45.41 N, 111.02 W), Montana,
U.S.A.Gift of N. Banks to S. Hadwen &
latters gift to us 1922.Nathan Banks (1868-1953) with Division
of Entomology, U.S. Department of
Agriculture (1890-1916), Curator of
Insects, Museum of Comparative Zoology,
Harvard (1916-1944).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3504	N	3504
		RML	112549
	<u>Dermacentor variabilis</u> 1 ♂, 1 ♀ ("Oregon form" C.W.)		1 ♂, 1 ♀ <u>Dermacentor variabilis</u>
	Man		<u>Homo sapiens</u>
	Aweme, Manitoba		Aweme (49.43 N, 99.36 W), Manitoba, Canada
	V.1910		V.1910
	N. Criddle		N. Criddle
	Gift of S. Hadwen 1922		I believe N 1148 is also part of this collection.
	S. H. & C. W. det.		
N	3505	N	3505
		RML	112550
	<u>Dermacentor variabilis</u> ♂'s, ♀'s		3 ♂, 3 ♀ <u>Dermacentor variabilis</u>
	Falls Church, Virginia, U.S.A.		Falls Church (38.53 N, 77.11 W), Virginia, U.S.A.
	Gift of N. Banks & passed on to us by S. Hadwen, 1922		Gift of N. Banks & passed on to us by S. Hadwen, 1922
	N. Banks del. S. H. & C. W. conf.		I believe N 704 is also part of this collection.
N	3506	N	3506
		RML	112551
	<u>Dermacentor occidentalis</u> 1 ♂, 3 ♀		2 ♂, 3 ♀ <u>Dermacentor occidentalis</u>
			Either California or Oregon, U.S.A.
	Rec'd from Bishopp by S. Hadwen (donor to us, 1922)		Rec'd from Bishopp by S. Hadwen (donor to us, 1922).
	S. H. & C. W. conf.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3507

Dermacentor occidentalis 4 ♂, 3 ♀

Horses

Las Lomas, California, U.S.A.

4.V.1915

Gift of S. Hadwen, 1922

S.H. & C.W. conf.

N 3507

RML 112552

4 ♂, 3 ♀ Dermacentor occidentalis

Horses

Las Lomas (36.52 N, 121.44 W),
California, U.S.A.

4.V.1915

Gift of S. Hadwen, 1922

Las Lomas is no longer a town but a
marshy area located 3.2 km S of
Watsonville, California [J.E.K.]

N 3508

Dermacentor hunteri 1 ♂, 3 ♀Rec'd from Bishopp by S. Hadwen
(donor to us, 1922)

S.H. & C.W. conf.

N 3508

RML 112553

1 ♂, 3 ♀ Dermacentor hunteri

Southwestern U.S.A. or northern Mexico

Rec'd from Bishopp by S. Hadwen
(donor to us, 1922)

N 3509

Argas persicus alive

Fowls infected with spirochaetosis

Ouargla, Sahara Constantinois
[Algeria]10.V. and 11-14.VI.1922.
Rec'd 24.XI.1922 hungryGift of Dr. Edm. Sergent
Inst. Pasteur, Algiers,
Algeria, N. Africa.

N 3509 MISSING

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3510	N	3510 MISSING
<u>Argas persicus</u> alive			
Fowls			
Beni-Ounif de Figuig, Sahara Oranaïs [Algeria]			
XI.1922 Rec'd 24.XI.1922			
Gift of Dr. Edm. Sergent Inst. Pasteur, Algiers, Algeria, N. Africa.			
N	3511	N	3511
		RML	112554
<u>Amblyomma testudinarium</u> 4 ♂'s, 4 ♀'s		2 ♂ <u>Amblyomma testudinarium</u> 1 ♂, 4 ♀ <u>Amblyomma crenatum</u>	
<u>Rhinoceros sondaicus</u>		<u>Rhinoceros sondaicus</u>	
		Quite possibly Java, Indonesia	
Rec'd 17.X.1922		Rec'd 17.X.1922	
Rec'd from Dr. K. W. Dammerman, Director, Islands Plantation, Zoologisch Museum en Laboratorium, Buitenzorg, Java.		Rec'd from Dr. K. W. Dammerman, Director, Islands Plantation, Zoologisch Museum en Laboratorium, Buitenzorg, Java	
		Java ? is locality on vial label.	
N	3512	N	3512 MISSING
<u>Hyalomma aegyptium</u> (3) deprived of Haller's organs (from my raised strain)			
Attached to dead rat's skin			
Cambridge (Quick Lab'y.)			
1912			
Hindle & Merriman			
See Parasitology V.215.			

ORIGINAL DETERMINATIONCURRENT STATUS

N 3513

N 3513

RML 112555

Ixodes vespertilionis3 N Ixodes vespertilionis

Horse-shoe Bat

Rhinolophus ferrumequinum or
Rhinolophus hipposideros

Dundry, Somerset

Dundry (51.24 N, 02.38 W),
Somerset, England

26.XII.1922

26.XII.1922

L. H. Matthers

L. H. Matthers

C. W. det.

Vial label indicates hosts are
Greater & Lesser horseshoe bat.

N 3514

N 3514

RML 112556

Amblyomma sublaeve ♂ (= badium)1 ♂ Amblyomma javanense

From groin of Semnopithecus monkey

Presbytis sp.

Mountains of Borneo

Borneo, mountains of

VII.1920

VII.1920

Dr. Chas. Hose

Dr. Chas. Hose

Dissected in the Anatomy School,
Cambridge. Rec'd from L. H.
Matthers, Cambridge

C. W. det.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3515	N	3515
		RML	71005, RML 71138
	<u>Haemaphysalis elongata</u>		2 ♂, 3 ♀ <u>Haemaphysalis elongata</u> (RML 71005)
			4 ♂ <u>Haemaphysalis subelongata</u> (RML 71138)
	Preserved tenerec demonstration specimen		Tenerec
	Zoological Laboratory, Cambridge		Zoological Laboratory, Cambridge (52.13 N, 00.08 E), England
	XII.1922		XII.1922
	L. H. Matthers, Cambridge		L. H. Matthers, Cambridge
	C. W. det.		Cited: Hoogstraal <u>et al</u> (1974: 481).
N	3516	N	3516
		RML	112557
	<u>Aponomma hydrosauri</u> ♂		1 ♂ <u>Aponomma hydrosauri</u>
	<u>Tiliqua scinoides</u>		<u>Tiliqua scinoides</u>
	Seaforth, Victoria		Seaford (38.06 S, 145.08 E), Victoria, Australia
	Sent 23.I.1923		Sent 23.I.1923
	W. F. Hill		W. F. Hill
	Sent to Prof. R. Newstead, Liverpool Sch. of Trop. Med. who sent them to us for identification.		
	C. W. & L.E.R. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3517

N 3517

RML 112558

Aponomma hydrosauri4 ♀ Aponomma concolor

Echidna

Tachyglossus aculeatus

Undoubtedly Australia

1911

1911

W. F. Hill, Australia.
 Sent to Prof. R. Newstead,
 Liverpool School of Trop. Med.
 who sent them to us for
 identification Jan. 23, 1923.

W. F. Hill.

C. W. & L.E.R. det.

N 3518

N 3518

RML 112559

Amblyomma triguttatum ♀♀3 ♀ Amblyomma triguttatumMacropus rufusMegaleia rufa

Pentland, N. Qld.

Pentland (20.32 S, 145.24 E),
Queensland, Australia

Sent 23.I.1923

Sent 23.I.1923

W. F. Hill, Australia. Sent to
 Prof. R. Newstead, Liverpool Sch.
 of Trop. Med. who sent them to
 us for identification.

W. F. Hill.

L.E.R. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3519

N 3519

RML 112560

Aponomma trimaculatum3 σ , 1 φ Aponomma trimaculatumPython spilotesPython spilotes

Tvl.

Tvl. in all probability is
Townsville (19.14 S, 146.49 E),
Queensland, Australia

21. VII.1913

21.VII.1913

W. F. Hill, Australia. Sent to
Prof. R. Newstead, Liverpool
Sch. of Trop. Med. who sent them
to us for identification
Jan. 23, 1923

W. F. Hill

L.E.R. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3520

N 3520

RML 112561

Aponomma p[-----]s1 ♂ Aponomma auruginansPhascolomys mitchelliVombatus ursinus

N.S.W.

New South Wales, Australia

1911

1911

W. F. Hill, Australia. Sent to
 Prof. R. Newstead, Liverpool
 Sch. of Trop. Med. who sent them
 to us for identification
 Jan. 23, 1923.

W. F. Hill

See comment under 3195

L.E.R. det.

Note in vial "1 N removed
 13/6/36 Bertram".

N 3521

N 3521

RML 112562

Dermacentor albipictus2 ♂, 1 N Dermacentor sp.

Deer

Deer

New Caledonia

New Caledonia

Sent 23.I.1923

Sent 23.I.1923

W. F. Hill, Australia. Sent to
 Prof. R. Newstead, Liverpool
 Sch. of Trop. Med. who sent them
 to us for identification.

W. F. Hill

C. W. det.

These specimens look like true D.
albipictus. There is perhaps a mix-up
 in specimens or labelling or, more
 unlikely, an introduction of deer into
 New Caledonia from North America with
D. albipictus attached.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3522	N	3522
		RML	112563
	<u>Amblyomma australiense</u>		3 ♂ <u>Amblyomma echidnae</u>
	Echidna		<u>Tachyglossus aculeatus</u>
	Tvl.		Tvl. in all probability is Townsville (19.14 S, 146.49 E) Australia
	Sent 23.I.1923		Sent 23.I.1923
	W. F. Hill, Australia. Sent to Prof. R. Newstead, Liverpool Sch. of Trop. Med. who sent them to us for identification.		W. F. Hill
	C. W. & L.E.R. det.		
N	3523	N	3523
		RML	112564
	<u>Amblyomma albolimbatum</u> (atypical says L.E.R. 1926)		1 ♂, 1 ♀ <u>Amblyomma moreliae</u>
	Carpet snake		Perhaps <u>Python spilotes variegatus</u> , the carpet python
	Koolpinyak, N.T.		Koolpinyah (12.23 S, 131.10 E), Northern Territory, Australia
	22.VIII.1911		22.VIII.1911
	W. F. Hill, Australia. Sent to Prof. R. Newstead, Liverpool Sch. of Trop. Med. who sent them to us for identification Jan. 23, 1923.		W. F. Hill
	L.E.R. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3524

N 3524

RML 112565

Aponomma hydrosauri2 ♂ Aponomma hydrosauri

Blue-tongued lizard

Tiliqua scinoides

Seaford, Vic.

Seaford (38.06 S, 145.08 E),
Victoria, Australia

Sent 23.I.1923

Sent 23.I.1923

W. F. Hill, Australia. Sent to
Prof. R. Newstead, Liverpool
Sch. of Trop. Med. who sent
them to us for identification.

W. F. Hill.

L.E.R. det.

N 3525

N 3525 MISSING

Amblyomma dissimile 1 ♀Bufo marinus

? West Indies

Rec'd 7.XII.1922

Gift of Dr. S. H. Dankes of
Wellcome Bur. Sci.

G.H.F.N. det.

Note to No. 3525. Rec'd at
Wellcome Bur. Sci. London,
during war, no particulars
available. Tick & toad &
possible origin det'd. by me
G.H.F.N. 11.V.1923.Host with gorged tick attached
mounted as Museum Specimen.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3526
Amblyomma variegatum ♂'s, ♀'s
 Sheep
 Jinja, Nyasaland, B.E. Africa
 Rec'd 26.VI.1923
 Gift of Thos. Bowhill, Esq.
 C. W. det.

N 3526 MISSING

N 3527
Rhipicephalus evertsi ♂'s, ♀'s
 Sheep
 Jinja, Nyasaland, B.E. Africa
 Rec'd 26.VI.1923
 Gift of Thos. Bowhill, Esq.
 C. W. det.

N 3527 MISSING

N 3528
Rhipicephalus appendiculatus
 ♂'s, ♀'s
 Sheep
 Jinja, Nyasaland, B.E. Africa
 Rec'd 26.VI.1923
 Gift of Thos. Bowhill, Esq.
 C. W. det.

N 3528
 RML 112566
 6 ♂, 5 ♀ Rhipicephalus appendiculatus
 Sheep
 Probably Jinja (00.26 N, 33.12 E),
 Uganda
 Rec'd 26.VI.1923
 Gift of Thos. Bowhill, Esq.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3529	N	3529
		RML	112567
	<u>Haemaphysalis bispinosa</u> ♀		1 ♀ <u>Haemaphysalis aciculifer</u>
	Sheep		Sheep
	Jinja, Nyasaland, B.E. Africa		Probably Jinja (00.26 N, 33.12 E), Uganda
	Rec'd 26.VI.1923		Rec'd 26.VI.1923
	Gift of Thos. Bowhill, Esq.		Gift of Thos. Bowhill, Esq.
N	3530	N	3530
		RML	112568
	<u>Amblyomma splendidum</u>		6 ♂, 2 ♀ <u>Amblyomma splendidum</u>
	Bush cow		Cow, bush
	Mabonto		Either Mabonto (08.38 N, 12.37 W) or (08.52 N, 11.49 W), Sierra Leone
	VI.1923		VI.1923
	Mr. M. J. Dawe, Sierra Leone (His No. 1363)		Mr. M. J. Dawe
	C. W. det.		
N	3531	N	3531
		RML	112569
	<u>Ixodes vespertilionis</u> 3 nymphs		1 N, 2 L <u>Ixodes vespertilionis</u>
	Lesser horseshoe bat		<u>Rhinolophus hipposideros</u>
	Clifton (England)		Clifton, England (locality not verified; 6 possible localities).
	25.XI.1923		25.XI.1923
	Coldstream Tuckett, Esq. coll. & gift		Coldstream Tuckett, Esq. coll. & gift
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3532

N 3532

RML 112570

Ixodes tenuirostris 1 ♀1 ♀ Ixodes triangulicepsArvicola arvalisMicrotus arvalis

Weissenstein, Jura, Switzerland

Weissenstein (47.15 N, 07.32 E),
Switzerland

16.VIII.1917

16.VIII.1917

Gift of Dr. K. Jordan, 1923

Gift of Dr. K. Jordan, 1923

C. W. det.

N 3533

N 3533

RML 112571

Ixodes tenuirostris 2 ♀1 ♀ Ixodes triangulicepsHypudaeus glareolusClethrionomys glareolus

Weissenstein, Jura, Switzerland

Weissenstein (47.15 N, 07.32 E),
Switzerland

26.VIII.1917

26.VIII.1917

Gift of Dr. K. Jordan, 1923

Gift of Dr. K. Jordan, 1923

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3534

N 3534

RML 112572

Ixodes tenuirostris 2 ♀, 3 N1 ♀, 2 N Ixodes triangulicepsHypudaeus glareolusClethrionomys glareolus

Goslar, Harz, Germany

Goslar (51.54 N, 10.26 E), Harz
Mountains, Federal Republic of Germany

12.VII.1921

12.VII.1912

Gift of Dr. K. Jordan, 1923

C. W. det.

1 ♀ to Dr. E. Pavlovsky,
Leningrad 9.X.1925.

N 3535

N 3535

RML 112573

Ixodes tenuirostris 2 N1 N, 1 L Ixodes triangulicepsHypudaeus glareolusClethrionomys glareolus

Goslar, Harz, Germany

Goslar (51.54 N, 10.26 E), Harz
Mountain, Federal Republic of Germany

12.VII.1921

12.VII.1912

Gift of Dr. K. Jordan, 1923

Gift of Dr. K. Jordan, 1923

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3536	N	3536 MISSING
	<u>Argas persicus</u> 1 ♀		
	Found on wall Djama, Algeria		
	25.II.1920		
	Hon. N.C. Rothschild & K. Jordan		
	Gift of Dr. K. Jordan, 1923		
	C. W. det.		
N	3537	N	3537
		RML	112574
	<u>Haemaphysalis leachi</u> N's		10 N <u>Haemaphysalis erinacei</u>
	<u>Dipodillus campestris</u>		<u>Gerbillus campestris</u>
	Timgad, Algeria		Timgad (35.30 N, 06.35 E), Algeria
	15.IV.1920		15.IV.1920
	Hon. N.C. Rothschild & K. Jordan		Hon. N.C. Rothschild & K. Jordan
	Gift of Dr. K. Jordan, 1923		Cited: Hoogstraal (1955c: 222, 223). See note under N3539.
	C. W. det.		
N	3538	N	3538
		RML	112575
	<u>Haemaphysalis leachi</u> N's		11N <u>Haemaphysalis erinacei</u>
	<u>Dipodillus campestris</u>		<u>Gerbillus campestris</u>
	Timgad, Algeria		Timgad (35.30 N, 06.35 E), Algeria
	15.IV.1920		15.IV.1920
	Hon. N.C. Rothschild & K. Jordan		Hon. N.C. Rothschild & K. Jordan
	Gift of Dr. K. Jordan, 1923.		
	C. W. Det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3539

Haemaphysalis leachi N'sDipodillus campestris

Timgad, Algeria

17.IV.1920

Hon. N.C. Rothschild & K. Jordan

Gift of Dr. K. Jordan, 1923.

C. W. det.

N 3539

RML 112576

4 N Haemaphysalis erinaceiGerbillus campestris

Timgad (35.30 N, 06.35 E), Algeria

17.IV.1920

Hon. N.C. Rothschild & K. Jordan

Cited: Hoogstraal (1955c: 223) who gave the Nuttall number 3739 for this collection and gave a total number of nymphs as 17 for N 3537 and N 3539.

N 3540

Amblyomma dissimile ♀'s, N's, L'sFrom skin of large toad
(sp. incert.)Saco de São Francisco Nictheroy,
Estado do Rio, Brazil

17.VII.1923

L. H. Matthews

L.E.R. & C.W. det.

N 3540

RML 112577

3 ♀, 7 N, 12 L Amblyomma dissimileFrom skin of large toad
(sp. incert.)Saco de São Francisco (22.55 S, 43.06 W)
Estado do Rio de Janeiro, Brazil

17.VII.1923

L. H. Matthews

ORIGINAL DETERMINATIONCURRENT STATUS

N 3541

Amblyomma cajennense
♀'s & N's "carapatas"

Sacco de São Francisco Nictheroy,
Estado do Rio, Brazil

1.IX.1923

L. H. Matthews

L.E.R. & C.W.

(A most troublesome pest - one
gets covered with them by walk-
ing through thick herbage in
dry weather).

N 3542

Hyalomma aegyptium ♂, ♀

Camelus dromedarius

Mauritania, N. Africa

♂ XII.1922
♀ 1.III.1923

Dr. Belleu. Received from Th.
Monod. Mus. Hist. Nat. Paris

C. W. det. 3.II.1924

From collections of Zoological
Mission to Mauritania
Th. Monod 1922. 23.

N 3541 MISSING

N 3542

RML 112578

1 ♂, 1 ♀ Hyalomma impressum
Tentative ID

Camelus dromedarius

Mauritania

♂ XII.1922
♀ 1.III.1923

Dr. Belleu

ORIGINAL DETERMINATIONCURRENT STATUS

N 3543

N 3543

RML 112579

Undetermined genus 2 N

2 N Dermacentor sp.Sciurus brookiSundasciurus brookei

Mt. Dulit, Sarawak, Borneo

Banjaran Dulit (03.15 N, 114.15 E),
Sarawak, MalaysiaDr. E. Mjöberg, Curator of
Sarawak Museum, Kuching Sarawak

Dr. E. Mjöberg

C. W. det. I.1924

3543 Rhipicephalus like. They don't quite agree with R. sanguineus, & the only other oriental Rhipicephalus (haemaphysaloides) has unknown mature [sic] stages: but we cannot distinguish Rhipicephalus nymphs from Dermacentor nymphs and these may possibly be the unknown immature forms of D. auratus.

N 3544

N 3544

RML 112580

Ixodes granulatus 2 ♀2 ♀ Ixodes granulatusSciurus prevostiiCallosciurus prevostiiMt. Dulit 3,500 ft.
Sarawak, BorneoBanjaran Dulit (03.15 N, 114.15 E),
Sarawak, Malaysia (1067 m)

Rec'd I.1924

Rec'd I.1924

Rec'd from Dr. E. Mjöberg,
Sarawak Museum, Kuching, Borneo

Rec'd from Dr. E. Mjöberg

C. W. det

ORIGINAL DETERMINATIONCURRENT STATUS

N 3545, a

N 3545, a

RML 112581

(3545) Ornithodoros normandi
 11 CO-TYPES v. states
 (a) Ornithodoros normandi
 2 slides larvae & N's

(3545) 7 ♀, 3 N Ornithodoros normandi(a) 5 N, 1 L Ornithodoros normandi
(slide)(a) 8 L Ornithodoros normandi (slide)
SYNTYPES

Found in burrows of small rodents

Found in burrows of small rodents

Le Kef, Tunisia

Al Kaf (36.11 N, 08.43 E), Tunisia

VII-IV.1922

VII.IX.1922

Dr. Larrousse, Lab. de Parasit.,
Faculte de Med., Paris. Donor

Dr. Larrousse

Dr. Larrousse det.

Larrousse (1923: 170) original
description.

See Larrousse, F. (VI, 1923)
 Ann. de Parasitol. I.170-177,
 figs. 1-4

Fernand Larrousse (1888-1937)
 Received his MD in 1921. Professor
 on the medical faculty at Strasbourg;
 worked primarily on phlebotomine
 sandflies, especially north African
 species.

N 3546

N 3546

RML 112582

Rhipicephalus neavei var.
punctatus

2 ♂, 2 ♀ Rhipicephalus pravus

Cattle

Cattle

Karamaja, Uganda

District of Karamoja (02.45 N, 34.15 E),
Uganda

1923

1923

H. Hargreaves

H. Hargreaves

C. W. Det.

Gift of Imperial Bureau of
 Entomology, No. 1368b. Sent by
 Dr. G.A.K. Marshall 29.IV.1924

ORIGINAL DETERMINATIONCURRENT STATUS

N 3547

N 3547

RML 112583

Argas vespertilionis 1 N1 N Argas vespertilionis

Bat (in hollow tree inhabited by)

Bat (in hollow tree inhabited by)

Verinag, Kashmir 6000 ft.

Vernag (33.33 N, 75.15 E) Kashmir,
India (1829 m)

2.VIII.1923

2.VIII.1923

Dr. T. Bainbrigge Fletcher (No. 7)

Dr. T. Bainbrigge Fletcher (No. 7)

C. W. det.

Dr. Bainbrigge Fletcher, Imperial
Entomologist, Agric. Res. Inst.
Pusa, Bihar, India. Letter rec'd.
2.I.1924. Report on this & other
specimens sent 16.IX.1924.

N 3548

N 3548

RML 78392

Ornithodoros crossi5 ♂, 7 ♀ Ornithodoros tholozani

Camel

Camelus dromedarius

Punjab, India

Punjab, Pakistan

VIII.1924

VIII.1924

Capt. H. E. Cross.

Capt. H. E. Cross.

N 3549

N 3549

RML 71385

Ornithodoros lahorensis4 ♂, 13 ♀, 6 N Ornithodoros lahorensis

Punjab, India

Punjab, Pakistan

VIII.1924

VIII.1924

Capt. H. E. Cross coll. & gift.

Capt. H. E. Cross coll. & gift.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3550	N	3550 MISSING
	<u>Argas persicus</u>		
	Punjab, India		
	VIII.1924		
	Capt. H. E. Cross coll. & gift.		
N	3551	N	3551
		RML	66610
	<u>Hyalomma aegyptium</u>		1 ♂, 4 ♀ <u>Hyalomma anatolicum excavatum</u>
	Calf		Calf
	Punjab, India		Punjab, Pakistan
	VII.1924		VII.1924
	Capt. H. E. Cross coll. & gift.		Capt. H. E. Cross coll. & gift.
N	3552	N	3552
		RML	71486
	<u>Hyalomma aegyptium</u> 3 ♀		2 ♀ <u>Hyalomma anatolicum anatolicum</u>
	Sheep		Sheep
	Punjab, India		Punjab, Pakistan
	VII.1924		VII.1924
	Capt. H. E. Cross coll. & gift.		Capt. H. E. Cross coll. & gift.
			This collection also contained 1 ♀ <u>Hyalomma</u> now in the collection of Dr. H. Hoogstraal, NAMRU-3, Cairo, Egypt which was cited: Kaiser & Hoogstraal (1964: 262).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3553

Ornithodoros sp.

From ground around small trees
where kangaroos camp (not
found on kangaroos or sheep)

Sesbania, Corfield
Queensland, Australia

Sent 14.VII.1924

L. E. Cooling, Entomologist

3 slides
C. W. det.

Sender: Lancelot E. Cooling,
Entomologist Australian Inst.
of Trop. Med. Townsville,
N. Queensland, Australia.

N 3553 MISSING

Lancelot E. Cooling (1893-1924).
Served in France in W.W.I. then
worked in Laboratory of Tropical
Medicine, Egypt. In 1921, he
conducted a mosquito survey of
Western Australia and the Northern
Territory.

N 3554

Aponomma exornatum ♂'s & N's

Iguana (attached to pieces of
skin)

(a) small piece
(b) large piece
(a) Wiltshire Estate
(b) Nairira Native Reserve
S. Rhodesia

Posted to us 15.V.1924

Sent us by J. D. Coutts, Vet.
Dpt. Enkeldoork. S. Rhodesia

C. W. det.

Mounted for Museum.

N 3554 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 3555

N 3555

RML 112584

Ixodes spinicoxalis ♀1 ♀ Ixodes spinicoxalisMartes flavigula henriciiMartes flavigulaAndalas (Tanjung) W. Coast,
SumatraAndalas (00.07 S, 100.41 E),
Sumatra, Indonesia

1924

1924

Gift of E. Jacobson, Esq.
Fortde-Kock, Sumatra,
Dutch East Indies

Gift of E. Jacobson, Esq.

January 1925

C. W. det.

N 3556

N 3556 MISSING

Undetermined genus

Sphenadon punctatum
"The Tuatura" (a lizard)

New Zealand

24.XI.1924

C. Lindsay Gift 1.II.1925 from
Prof. R. J. Tillyard, The Cawthron
Institute, Nelson, New Zealand.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3557

N 3557

RML 112585

Rhipicephalus sanguineus ♂1 ♂ Rhipicephalus sanguineusErinaceus roumanicus socer
(from ear)Erinaceus europaeus

Jerusalem, Palestine

Jerusalem (31.46 N, 35.14 E), Israel

8.II.1925

8.II.1925

S. Adler

S. Adler

C. W. & G.H.F.N. det.

The hedgehog showed a heavy infection with parasites like Piroplasma ninense Yakimof 1909 and Nuttalia ninense Sinlon 1921 as also Anaplasma, according to letter of S. Adler dated 11.II.1925 from address: Microbiological Institute, Hebrew University P.O. Box 250, Jerusalem, Palestine.

Saul Adler (1895-1966) MD Leeds Univ (1919). Researcher on Leishmania, Isospora, Theileria and Babesia at Hebrew University.

N 3558

N 3558

RML 112586

Argas vespertilionis N1 N Argas vespertilionis

Pusa, India

Pusa (25.59 N, 85.41 E), India

2.VII.1923

2.VII.1923

C. S. Muir

C. S. Muir

Rec'd by C. W. & particulars lost by him. G.H.F.N. 24.III.1925

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3559	N	3559
		RML	112587
	<u>Ornithodoros lahorensis</u> 2nd N		1 N <u>Ornithodoros lahorensis</u>
	Cow		Cow
	Jerusalem, Palestine		Jerusalem (31.46 N, 35.14 E), Israel
	20.II.1925		20.II.1925
	O. Theodor, Assistant to S. Adler (see No. 3557)		O. Theodor
	C.W. & G.H.F.N. det. 23.III.1925.		
N	3560	N	3560
		RML	112588
	<u>Haemaphysalis mjobergi</u> CO-TYPE		1 ♂ <u>Haemaphysalis mjobergi</u> Lectotype
	<u>Rissa equina</u>		<u>Cervus unicolor</u>
	Mt. Poi, Sarawak		Mt. Poi, Sarawak, Malaysia (locality not verified)
	IV.1924		Sent 7.IV.1924
	Dr. E. Mjöberg, Sarawak Museum, Kuching, Sarawak		Dr. E. Mjöberg
	C.W. det.		Warburton (1926: 57) original de- scription. Cited: Kohls (1961: 305) who gave the correct host name, Hoogstraal & Wassef (1982: 138). Lectotype designated: Keirans & Brewster (1981: 163).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3561	N	3561
		RML	22286
	<u>Ixodes fecialis</u>		1 ♀, 1 N <u>Ixodes fecialis</u>
	<u>Dasyurus maculatus</u>		<u>Dasyurus maculatus</u>
	Bundanoon N. S. Wales		Either Bundanoon (34.54 S, 150.31 E) or (34.39 S, 150.18 E), New South Wales, Australia
	31.III.1925		31.III.1925
	T. Steel		T. Steel
	Sent to us by Prof. J. H. Ashworth		Three slides of dissections ♀ hypostome ♀ spiracular plate ♀ legs I & IV
N	3562	N	3562
		RML	112589
	<u>Ornithodoros gurneyi</u> CO-TYPE		1 ♂ <u>Ornithodoros gurneyi</u> Lectotype
	In old shed		In old shed
	Pindera Section, Tibbobura, N. S. Wales		Pindera Section, Tibbobura (29.26 S, 142.01 E), New South Wales, Australia
	24.II.1922		24.XI.1922
	W. B. Gurney		W. B. Gurney
	Sent to us by Dr. G.A.K. Marshall, London 1925.		Warburton (1926: 55) original description. Both catalogue and vial label date are 24.II.1922. Date in publication is 24.XI.1922. Lectotype designated: Keirans & Brewster (1981: 154).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3563	N	3563
		RML	112590
Undetermined genus N		1 N <u>Ixodes tasmani</u>	
<u>Dasyurus maculatus</u>		<u>Dasyurus maculatus</u>	
Bundanoon, N.S. Wales		Either Bundanoon (34.54 S, 150.31 E) or (34.39 S, 150.18 E), New South Wales, Australia	
31.III.1925		31.III.1925	
T. Steel		T. Steel	
Sent by Prof. J. H. Ashworth			
C. W. Det.			
Curious nymph removed from 3561 (<u>Ix. fecialis</u>), coxae & spiracle right but capit. wrong.			
N	3564	N	3564
		RML	112591
<u>Ixodes ricinus</u> ♀		1 ♀ <u>Ixodes ricinus</u>	
Herbage		Herbage	
Llwyngwrl, Merionethshire, Wales		Llwyngwrl (52.40 N, 04.05 W), Wales	
15.VIII.1925		15.VIII.1925	
Dr. H. Scott		Dr. H. Scott	
G.H.F.N. det. 2.X.1925		Hugh Scott (1885-1960), Sc.D. (1919) Trinity College, Cambridge. Distinguished entomologist and biogeographer. He was interested in East African and South West Arabian Coleoptera, where the Palearctic and Ethiopian faunal elements meet and overlap. Assistant Keeper of Entomology British Museum (Nat. Hist.) 1930-1948.	

ORIGINAL DETERMINATIONCURRENT STATUS

N 3565

Aponomma laeve var. paradoxum ♂'s

Rat snake

Bangalore, South India

IV.1925, Rec'd 26.X.1925

Dr. H. H. Marshall

C. W. det. 30.X.1925

N 3566

Ixodes hexagonus 3 ♀'s

Mustela putorius

Zoological Gardens, London
(received alive)

31.X.1925

Dr. H. H. Scott

C. W. det.

N 3567

Amblyomma testudinarium
1 ♂, 2 ♀ larvae

An adult on "wild pig". Larvae
off man. 2 adults on ground

Sarawak, Borneo

Rec'd 2.VI.1926

Murray Pollock

Gift to G.H.F.N.

C. W. det. 5.VI.1926.

N 3565

RML 112592

21 ♂ Aponomma pattoni

Ptyas mucosus

Bangalore (12.59 N, 77.35 E), India

IV.1925, Rec'd. 26.X.1925

Dr. H. H. Marshall

N 3566

RML 112593

2 ♀ Ixodes hexagonus

Mustela putorius

Zoological Gardens, London (51.30 N,
00.07 W), England

31.X.1925

Dr. H. H. Scott

N 3567

RML 112594

1 ♂, 2 ♀, 9 L Amblyomma testudinarium

One adult on Sus scrofa. Larvae on Homo sapiens. Two adults on ground.

Sarawak, Malaysia

Rec'd. 2.VI.1926

Murray Pollock

ORIGINAL DETERMINATIONCURRENT STATUS

N 3568

N 3568

RML 22310

Amblyomma cordiferum 1 ♀1 ♀ Amblyomma cordiferum

Snake

Snake

Vailele, near Apia, Upolu Is.,
SamoaVailele, near Apia (13.50 S, 171.44 W),
Upolu Island, Western Samoa

18.I.1925

18.I.1925

P. A. Buxton & Hopkins
(P.A.B. donor)

P. A. Buxton and G.H.E. Hopkins

L.E.R. det.

Three slides of dissections
♀ hypostome
♀ spiracular plate
♀ legs I & IV

N 3569

N 3569

RML 112595

Amblyomma quasicyprium ♀1 ♀ Amblyomma cyprium

On grass

On grass

Tanna, S. New Hebrides

Tanna Island (19.30 S, 169.20 E),
Vanuatu

IX.1925

IX.1925

P. A. Buxton

P. A. Buxton

L.E.R. det. VI.1926.

Note by Santos Dias in vial "Amblyomma quasicyprium Robinson, 1926 is not a valid species. After the examination of all type material I concluded that this species is synonymous of A. cyprium and A. breviscutatum this last having priority.

We shall be consider:

Amblyomma breviscutatum

SIN:

A. cyprium Max & NnA. quasicyprium Rob."

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3570	N	3570
		RML	112596
	<u>Amblyomma cyprium</u> ♂		1 ♂ <u>Amblyomma cyprium</u>
	Biting man		<u>Homo sapiens</u>
	Mai Island, New Hebrides		Ile Emae' (17.04 S, 168.24 E), Vanuatu
	23.VI.1925		23.VI.1925
	P. A. Buxton		P. A. Buxton
	L.E.R. det. VI.1926.		
N	3571	N	3571
		RML	112597
	<u>Rhipicephalus sanguineus</u> ♂, ♀		1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Apia, Upolu Is. Samoa		Apia (13.50 S, 171.44 W), Upolu Island, Western Samoa
	IX.1925		IX.1925
	P. A. Buxton & Hopkins		P. A. Buxton & G.H.E. Hopkins
	C. W. det. VI.1926.		
N	3572	N	3572
		RML	112598
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		10 ♂, 19 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Apia, Upolu Is. Samoa		Apia (13.50 S, 171.44 W), Upolu Island, Western Samoa
	VI.1924		VI.1924
	P. A. Buxton & Hopkins		P. A. Buxton & G.H.E. Hopkins
	C. W. det. VI.1926.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3573	N	3573
		RML	112599
	<u>Rhipicephalus sanguineus</u>		4 ♂, 6 ♀, 1 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Apia, Upolu Is., Samoa		Apia (13.50 S, 171.44 W), Upolu Island, Western Samoa
	IV.1924		IV.1924
	P. A. Buxton & Hopkins		P. A. Buxton & G.H.E. Hopkins
	C. W. det. VI.1926.		
N	3574	N	3574 MISSING
	<u>Amblyomma cajennense</u> ♀ <u>a curio</u>		
	Unknown		
	Jamaica, W.I. most probably		
	Sent to me 4.III.1926		
	Prof. Robt. Newstead, F.R.S. Liverpool		
	L.E.R. det. 13.III.1926		
	<u>A curiosity</u> Semi-gorged ♀ with appearance of having ornate discs on venter, found in Newstead's "stockpot" for use of students, no particulars, asks for particulars. L.E. Robinson examined it & 13.III.26 reported that the supposed "plaques" were doubtless artifacts due to specimen drying against surface of bottle & adhering thereto, the surfaces in contact with glass becoming glazed like a photographic print, the remaining cuticle has become dried and shrivelled, hence the contrast. The cuticle of the "plaques" is perfectly normal. I note that the sham "plaques" are remarkably symmetrical!		
	G.H.F.N. 14.VI.1926.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3575

N 3575

RML 112600

Ixodes vespertilionis larva1 L Ixodes vespertilionis

Bat ("16")

Bat

Tsinan, Shantung, China

Tsinan (36.40 N, 117.00 E), Shantung
Province, Peoples Republic of China

11.VIII.1925

11.VIII.1925

Dr. E. Hindle

Dr. E. Hindle

G.H.F.N. & C.W. det. 12.III.1926.

N 3576

N 3576

RML 22294

Haemaphysalis campanulata (dry)65 ♂, 36 ♀, 48 N Haemaphysalis campanulata

Dogs

Dogs

Tsinan, Shantung, China

Tsinan (36.40 N, 117.00 E), Shantung
Province, Peoples Republic of China

IX-X.1925

IX-X.1925

Dr. E. Hindle

Dr. E. Hindle

C. W. det. 12.III.1926

Six slides of dissections

♂ & ♀ hypostome

♂ & ♀ spiracular plates

♂ & ♀ legs I & IV.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3577

N 3577 MISSING

Hyalomma scupense 2 ♂, 1 ♀Bos bovis

Uskub [Yugoslavia]

II.1918, rec'd by me 24.IV.1926

Donor Prof. P. Schulze, Zool.
Inst., Rostock, Mecklenburg

P. Schulze det.

Prof. P. Schulze wrote on
22.IV.1926:- (translated) Sending
species again. They were killed
in Carnoy & as result show colour
better than when killed in
alcohol. The statement by him-
self & "Chodziuner" that this
tick has a brown "Parma" was
doubtless due to browning in
alcohol. G.H.F.N. 15.VI.1926.

N 3578

N 3578

RML 112601

Amblyomma supinoi 2 ♂2 ♂ Amblyomma supinoiGeomyda tricarinata
(on fleshy part)Melanochelys tricarinata

Sornapur, Assam

Sornapur, Assam (26.00 N, 93.00 E), India

Sent for det. 17.VI.1919

Sent for det. 17.VI.1919

C. W. Middleton

C. W. Middleton

Indian Mus. $\frac{2426}{17}$
(2 kept, 3 returned)

L.E.R. & C.W. det. 1926.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3579

N 3579

RML 112602

Ixodes hexagonus1 ♀ Ixodes hexagonusSender says, "Introduced in a
parcel of bananas."Sender says, "Introduced in a parcel
of bananas."

(British no doubt)

England (no doubt)

Rec'd 14.VI.1926

Rec'd. 14.VI.1926

Geo. B. Walch, Linthorpe, Stepney
Drive, Scarborough, England

George B. Walch

C.W. & G.H.F.N. det. VI.1926.

N 3580

N 3580 MISSING

Ixodes sp.Jackdaw, picked up dying.
Many on head

Scarborough, England

Rec'd 14.VI.1926

Geo. B. Walch, Linthorpe, Stepney
Drive, Scarborough, England

C.W. & G.H.F.N. det. VI.1926.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3581

N 3581

RML 112603

Ixodes theodori 1 ♀
TYPE1 ♀ Ixodes acuminatus
Holotype of I. theodori

Man

Homo sapiens

Nahalal, Palestine

Nahalal (32.41 N, 35.12 E), Israel

I.1926

I.1926

Sent by Dr. Oskar Theodor, Hebrew
Univ. Palestine on 20.IV.1926

Sent by Dr. Oskar Theodor

Warburton (1927: 405) original
descriptionN.O. Olenov (1929) C.R. Acad, Sci.
URSS, pp. 489-494 says this is
his Ix. redikortsevi, described
in vol. for 1927, p. 219.

N 3582

N 3582

RML 112604

Haemaphysalis cinnabarina
var. punctata2 ♂, 1 ♀ Haemaphysalis sulcata

Camel

Camelus dromedarius

Kalendieh, Palestine

Kalendieh, Israel (locality not
verified)

II.1926

II.1926

Sent by Dr. Oskar Theodor,
Hebrew, Univ., Palestine on
20.IV.1926

Sent by Dr. Oskar Theodor

C.W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3583

Ornithodoros sp.

In fowl house (in cracks)

Kalendieh, Palestine

II.1926

Sent by Dr. Oskar Theodor,
Hebrew Univ., Palestine on
20.IV.1926

N 3584

Amblyomma latum 2 ♂

"Hemop. areolata"

Natal

1852.II.5

From Vienna Museum No. 16 came
labelled "Ixodes sp."

C.W. & G.H.F.N. det.

N 3583 MISSING

N 3584

RML 112605

2 ♂ Amblyomma sylvaticum

Homopus areolatus

Natal, Republic of South Africa

1852.II.5

From Vienna Museum No. 16 came
labelled "Ixodes sp."

Cited: Warburton (1927: 410)

The numbers 1852.II.5 probably
do not refer to a date - see 3585.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3585, a

N 3585, a

RML 112606

(3585) Amblyomma latum 2 ♂
 (a) Amblyomma latum 1 N

(3585) 2 ♂ Amblyomma sylvaticum
 (a) 1 N Amblyomma sylvaticum

No particulars obtainable from
 Vienna Mus. over & above those
 on labels of 3584 & 3585

No particulars obtainable from
 Vienna Mus. over & above those
 on labels of 3584 & 3585

1856.I.35

1856.I.35

From Vienna Museum No. 22
 "H.16 Zaleb" on label

From Vienna Museum No. 22
 "H.16 Zaleb" on label

C.W. & G.H.F. det.

Cited & (a) figured: Warburton
 (1927: 410) who stated that Vienna tube
 No. 22 contained 10 ♂ and a nymph.

Unique in being the only
Amblyomma nymph yet known to be
 ornate. See Warburton (1927)
Parasitology vol. 19, p. 410,
 fig. 4 (scutum).

N 3586

N 3586

RML 112607

Ixodes hexagonus 1 ♀

1 ♀ Ixodes hexagonus

In nest of mole (Talpa europaea)

Talpa europaea (nest of mole)

Water Eaton, Oxon., England

Water Eaton (51.48 N, 01.16 W),
 England

22.II.1925

22.II.1925

T. Collins, rec'd alive from
 Prof. E. B. Poulton, Oxford
 28.II.1925

T. Collins

C.W. & G.H.F.N. det.

Edward Bagnall Poulton (1856-1943)
 Hope Professor, Oxford University
 (1893-1933), expert on mimicry,
 President, 2nd International Congress
 of Entomology.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3587

N 3587

RML 112608

Amblyomma astrion 3 ♂, 2 ♀2 ♂, 2 ♀ Amblyomma astrion
1 ♂ Amblyomma cohaerens

Buffalo

Syncerus cafferBinga Pan, Queve River,
Novo Redondo, AngolaBinga Pan, Rio Cuvo, Nova Redondo
(11.13 S, 13.50 E), Angola

1926

1926

Sent 20.XII.1926 by G.H.A. [sic]
Bedford to Dr. L. E. Robinson
who presented them to our
coll 16.III.1927

Sent 20.XII.1926 by G.A.H. Bedford

L.E.R. det. 16.III.1927

~~Gerald~~ Augustus Harold Bedford (1891-
1938). Born in England in May 1891.
He worked with F. V. Theobald at the
British Museum (Nat. Hist.). In 1920
he became Research Officer at
Onderstepoort Veterinary Laboratory,
a post he held until his death.G.H.A. Bedford, Dept. of Agric.,
Division of Veter. Educ. &
Research, P.O. Box 593, Pretoria,
Union of S. Africa - who under-
stands about ticks.

N 3588

N 3588

RML 112609

Rhipicephalus evertsi N's40 N Rhipicephalus evertsiHeifer (on which 3 Rhip.
appendiculatus had been put for
experiment!)

Cattle

Salisbury, S. Rhodesia
(Agric. Lab.)

Salisbury (17.50 S, 31.03 E), Zimbabwe

1927

1927

J. Isgair Roberts (Sent by L.E.R.
for confirmation of J.I.R.'s
determination 16.V.1927).

J. Isgair Roberts

C. W. det.

Report sent to L.E.R. 21.V.1927.
asked to keep them. J.I.
Roberts Entomologist.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3589

Hyalomma aegyptium N

Dog (its head)

Cyprus

Rec'd 4.X.1926

A. W. Noël Pillars
Wavertree, Liverpool

C.W. det.

N 3590

Ornithodoros gurneyi

(Specific host unknown)

Woolfield, Queensland, Australia

Sent us 28.IV.1927

Gift of Frank H. Taylor

C. W. det.

(see also 3562). This lot
presented by F. H. Taylor,
Australian Inst. of Tropical
Med. Townsville, N. Queensland.
Thanked 14.VI.1927 G.H.F.N.
[See Parasitology vol. 18
p. 55.]

N 3589

Hyalomma sp. This collection and
N1826a were in the past combined and
are now in one vial. Because they
were from different hosts and
countries no attempt has been made
to segregate and identify this
material and it has not been assigned
an RML number.

N 3590

RML 112610

1 N Ornithodoros gurneyi

(Specific host unknown)

Woolfield, Queensland, Australia
(locality not verified)

Sent us 28.IV.1927

Gift of Frank H. Taylor

Frank Henry Taylor (1886-1947)
carried out surveys of Diptera in
New Guinea and northern Australia.
He also investigated dengue. Died
in New South Wales.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3591

N 3591

RML 22290

Ixodes tasmani 1 ♀, 1 N1 ♀, 1 N Ixodes tasmaniSarcophilus sp. (a marsupial)Sarcophilus harrisii

Locality not stated

Undoubtedly Tasmania, Australia

Rec'd 3.VI.1927

Rec'd. 3.VI.1927

Gift of Prof. R. Matheson

Gift of Prof. R. Matheson

Prof. R. Matheson, Cornell
 Univ. Ithaca, N.Y., U.S.A.
 Thanked for gift 14.VI.1927.
 G.H.F.N.

N 3592

N 3592

RML 112611

Ixodes tenuirostris
♂, ♀ in copula1 ♂, 1 ♀ Ixodes triangulicepsArvicola amphibiusArvicola terrestris

Quy, Cambridgeshire

Quy (52.13 N, 00.13 E), Cambridgeshire,
England

23.V.1925

G. E. Pickford & G. E.
 Hutchinson

C. W. det.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3593	N	3593
		RML	112612
	<u>Ixodes tenuirostris</u> N		2 N <u>Ixodes trianguliceps</u>
	<u>Arvicola amphibius</u> (off ear)		<u>Arvicola terrestris</u>
	Quy, Cambridgeshire, England		Quy (52.13 N, 00.13 E), Cambridgeshire, England
	23.V.1925		23.V.1925
	G. E. Pickford & G. E. Hutchinson		G. E. Pickford & G. E. Hutchinson
	C. W. det.		
N	3594	N	3594
		RML	112613
	<u>Ixodes arvicolae</u> 3 ♀ COTYPES		2 ♀ <u>Ixodes arvicolae</u> Paralectotypes
	<u>Arvicola amphibius</u> (from nest)		<u>Arvicola terrestris</u>
	Quy, Cambridgeshire, England		Quy (52.13 N, 00.13 E), Cambridgeshire, England
	21-23.V.1925		21-23.V.1925
	G. E. Pickford & G. E. Hutchinson		G. E. Pickford & G. E. Hutchinson
	C. W. det.		Warburton (1925: 56) original description. Paralectotypes designated: Keirans & Brewster (1981: 164).
	See Warburton (1926)		
	<u>Parasitology</u> vol. 18 p. 55.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3595	N	3595
		RML	112614
	<u>Ixodes arvicolae</u> 1 ♀ TYPE		1 ♀ <u>Ixodes arvicolae</u> Lectotype
	<u>Arvicola amphibius</u>		<u>Arvicola terrestris</u>
	Quy, Cambridgeshire, England		Quy (52.13 N, 00.13 E), Cambridgeshire, England
	23.V.1925		23.V.1925
	G. E. Pickford & G. E. Hutchinson		G. E. Pickford & G. E. Hutchinson
	C. W. det.		Warburton (1913: 56) original description. Lectotype designated; Keirans & Brewster (1981: 164).
N	3596	N	3596
		RML	112615
	<u>Ixodes arvicolae</u> 2 ♀		2 ♀ <u>Ixodes acuminatus</u> Syntypes of <u>Ixodes guernseyensis</u>
	<u>Apodemus sylvaticus</u> (38)		<u>Apodemus sylvaticus</u>
	Jerborg, Guernsey		Jerbourg Point (49.25 N, 02.32 W), Guernsey, Channel Islands, England
	4.II.1925		4.II.1925
	C. W. det.		Arthur (1955: 138) original description of <u>I. guernseyensis</u>
			Both ♀ missing capituli
			Four slides of dissections ♀ capitulum ♀ scutum ♀ spiracular plate ♀ leg I

ORIGINAL DETERMINATIONCURRENT STATUS

N 3597

Haemaphysalis montgomeryi ♂, ♀

Cattle

Bhowali, United Provinces,
India (6000 ft.)

V-VII.1925

S. Sundar Rao

C. W. det.

S. S. Rao, Fairy Cottage,
Bhowali, U.P., India.

N 3597

RML 112616

17 ♂, 27 ♀ Haemaphysalis montgomeryi

Cattle

Bhowali (29.23 N, 79.31 E), India
(1829 m)

V-VII.1925

S. Sundar Rao

N 3598

Haemaphysalis montgomeryi ♂'s, ♀'s

Sheep

Bhowali, United Provinces
India (6000 ft.)

VI-VII.1925

S. Sundar Rao

C. W. det.

N 3598

RML 22322

41 ♂, 20 ♀ Haemaphysalis montgomeryi

Sheep

Bhowali (29.23 N, 79.31 E), India
(1829 m)

VI-VII.1925

S. Sundar Rao

Cited: Hoogstraal et al (1966: 180).
Two additional ♂ and ♀ of this lot are
in the RML collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3599

N 3599

RML 112617

Haemaphysalis lagrangei
CO-TYPE1 ♂ Haemaphysalis lagrangei
ParalectotypeCervulus muntjacMuntiacus muntjac

Nhatrang, Annam

Nha Trang (12.15 N, 109.11 E), Vietnam

Gift 28.I.1927

Gift 28.I.1927

Gift of Dr. Larrousse
Lab. de Parasitol. etc.
(see 3545)

Gift of Dr. Larrousse

See F. Larrousse (1925)
Annales de Parasitol. etc.
III.301.Larrousse (1925: 304) original description.
Trapido (1965: 159) selected the
lectotype and cited this collection.
Cited: Hoogstraal & Trapido (1966: 1193);
Hoogstraal et al. (1973b: 1118).

N 3600

N 3600

RML 112618

Argas vespertilionis1 ♀ Argas vespertilionis

Found on verandah

Found on verandah

Bhowali, U.P., India

Bhowali (29.23 N, 79.31 E), India

6.V.1925

6.V.1925

S. S. Rao
(see 3597)

S. S. Rao

ORIGINAL DETERMINATIONCURRENT STATUS

N 3601

N 3601

RML 112619

Amblyomma crenatum 2 ♂, 1 ♀2 ♂, 1 ♀ Amblyomma crenatumRhinocerosRhinoceros sondaicus

Kuala Lumpur, F.M.S.

Kuala Lumpur (03.10 N, 101.42 E),
Malaysia

Rec'd III.1927

Rec'd III.1927

Picked by C. W. from Lond. Sch.
of Trop. Med. coll. III.1927.Picked by C. W. from Lond. Sch. of
Trop. Med. coll. III.1927.

C. W. det.

N 3602

N 3602

RML 112620

Amblyomma personatum 5 ♂'s4 ♂ Amblyomma personatumRhinocerosDiceros bicornis

Nairobi, E. Africa

Nairobi (01.17 S, 36.49 E), Kenya

Rec'd III.1927

Rec'd III.1927

Picked by C. W. from Lond. Sch.
of Trop. Med. coll. III.1927.Picked by C. W. From Lond. Sch. of
Trop. Med. coll. III.1927.

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3603

N 3603

Amblyomma loculosum
2 ♂, 4 ♀, N's & L's

RML 22314, RML 83010, RML 104088

2 ♂, 4 ♀, 6 N, 44 L Amblyomma loculosum

Men and N's, L's off Noddy Tern

Homo sapiens
Anous stolidus

Michaelmas Cay, off
Cairns, Queensland

Michaelmas Cay (16.36 S, 145.59 E)
Queensland, Australia

V-VI.1926. Sent 10.VIII.1926

V-VI.1926

Picked from lots of Australian
Mus., Sydney Tube K55062
-3-5-72

T. Iredale and G. P. Whitney
(Great Barrier Reef Boring
Expedition)

G.H.F.N. & C. W. det.

Cited: Hoogstraal et al (1976: 12)
who gave the collectors' names.

Report sent X.1926 to W. T. Wells,
Sec'y. of Austral. Mus., Sydney.
Many on bodies of collectors and
men sinking a bore, 8 ft. above
high water.

N 3604

N 3604

Ornithodoros crossi
1 emerging from N

RML 112621

1 N Ornithodoros tholozani

Rec'd III.1927

Rec'd III.1927

Picked by C. W. from Lond. Sch.
of Trop. Med. coll. III.1927.

Picked by C. W. from Lond. Sch. of
Trop. Med. coll. III.1927.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3605	N	3605
		RML	112622
	<u>Ornithodoros talaje</u>		11 ♂, 4 ♀, 1 N <u>Ornithodoros talaje</u>
	Colombia		Colombia
	Rec'd III.1927		Rec'd III.1927
	Dr. E. J. Pampane		Dr. E. J. Pampane
	Picked by C. W. from Lond. Sch. of Trop. Med. coll. III.1927.		One ♀ <u>Haemaphysalis montgomeryi</u> (RML 105679), a Himalayan species was found floating in the alcohol containing the <u>O. talaje</u> specimens.
N	3606	N	3606
		RML	112623
	<u>Rhipicephalus appendiculatus</u>		223 ♂, 38 ♀, 1 N <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	E.C.F. Camp, Kabete, Kenya Colony		East Coast Fever Camp, Kabete (01.16 S, 36.43 E), Kenya
	13-15.I.1926		13-15.I.1926
	Sent by J. B. Purvis to the I.B.E., spec's. picked by C. W. from "Tube 1420."		Sent by J. B. Purvis to the I.B.E., spec's. picked by C. W. from "Tube 1420."
N	3607	N	3607 MISSING
	<u>Boophilus</u> alleged to be <u>annulatus</u> (♂'s with short tails)		
	Belazi, Honduras, Central America		
	Rec'd III.1927		
	Picked from Lond. Sch. Trop. Med. coll. by C. W.		
	<u>B. australis</u> ? C. W. 1933.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3608

N 3608

RML 112624

Amblyomma clypeolatum ♂'s, 1 ♀, N2 ♂, 1 ♀, 1 N, 1 L Amblyomma clypeolatumTestudo elegansGeochelone elegans

Near shore, West Coast of Ceylon

West Coast of Sri Lanka (near shore)

Rec'd I.1912

Rec'd I.1912

Picked from Indian Mus.

Picked from Indian Mus. coll. No. $\frac{1177}{17}$ coll. No. $\frac{1177}{17}$ (See our Tick Catal. p. 70:
No's 801-3500)

Nuttall 1512 also has Indian Museum

No. $\frac{1177}{17}$ C. Warburton det'd as A.
atrogenatum, now degraded

Rare

L.E.R. det.

N 3609

N 3609

RML 112625

Amblyomma dissimile 1 ♂1 ♂ Amblyomma dissimileIguana tuberculataIguana tuberculataCentral or South America:
wrongly labelled IndiaCentral or South America:
wrongly labelled India

22.VI.1912

22.VI.1912

Z.S. 37

See N 1522 for a similar case [J.E.K.]

L.E.R. det. 1926.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3610	N	3610
		RML	112626
	<u>Amblyomma gemma</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Amblyomma gemma</u>
	Somali, Afrique Orientale		Somali Democratic Republic
	Rec'd 5.VIII.1927		Rec'd 5.VIII.1927
	Dr. G. Franchini, Bologna, Italy		Dr. G. Franchini
	C. W. det.		
N	3611	N	3611
		RML	22309
	<u>Amblyomma clypeolatum</u> 3 ♂, 1 ♀		3 ♂, 1 ♀ <u>Amblyomma falsomarmoreum</u>
	Somaliland		Somali Democratic Republic
	Rec'd 5.VIII.1927		Rec'd 5.VIII.1927
	Dr. G. Franchini, Bologna, Italy		Dr. G. Franchini
	C. W. det.		3 slides of ♂ dissections legs I & IV spiracular plate hypostome
N	3612	N	3612
		RML	112627
	<u>Hyalomma aegyptium</u> 3 ♂, 2 ♀		3 ♂, 2 ♀ <u>Hyalomma anatolicum excavatum</u>
	Tripoli, Afrique Nord		Tripoli (32.54 N, 13.11 E), Libya
	Rec'd VIII.1927		Rec'd VIII.1927
	Dr. G. Franchini, Bologna, Italy		Dr. G. Franchini
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3613

Ornithodoros savignyi 1 adult

Rec'd VIII.1927

Dr. G. Franchini, Bologna, Italy

C. W. det.

N 3614

Haemaphysalis toxopei 3 ♂, 1 ♀

Bat

Buru, Moluccas

Rec'd XII.1926

Mr. L. J. Toxopeus, Leader of
Buru Exped. 1921/1922

C. W. det.

N 3613

RML 112628

1 N Ornithodoros savignyi

Rec'd VIII.1927

Dr. G. Franchini

N 3614

RML 80174

Haemaphysalis toxopei
♂ Lectotype, 2 ♂, 1 ♀ Paralectotypes

Bat

Buru Island (03.24 S, 126.40 E),
Moluccas Islands, Indonesia

Rec'd XII.1926

Mr. L. J. Toxopeus

Warburton (1927: 407) original
description; Hoogstraal (1964a: 778)
selected lectotype. ♀ vulva mounted
on a slide. Prof. Dr. L. J. Toxopeus
(d. 1951). Specialist in Lepidoptera
especially Lycaenidae and Hesperidae
of Indonesia and leader of the
Entomological Association of
Indonesia. Died 21 April 1951 in
a traffic accident.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3615

N 3615

RML 112629

Amblyomma dammermani 1 ♀
CO-TYPE

1 ♀ Amblyomma cyprum
Holotype of A. dammermani

Kei-eil (102 Goeneng Daab,
Groot Kei, pl. m. 300 M

Kei Islands (05.35 S, 132.45 E),
102 Goenoeng Daab (Groot Kei) pl. m.
300 M, Indonesia

1922

6.IV.1922

H. C. Sibers coll.

H. C. Sibers coll.

Sent by Dr. K. U. Damerman, Java

Warburton (1927: 409) original
description

C.W. & L.E.R. det.

Dr. Karel Willem Dammerman (1885-1951).
Traveled to Java in 1910 where in 1919
he became head of the Zoological Museum
of the National Botanical Gardens.
Returned to the Netherlands in 1939.
Author of "Animals of Agricultural
Importance in East India" (1919);
"The Agricultural Zoology of the Malay
Archipelago" (1929) and "The Fauna of
Krakatau, 1883-1933" (1948).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3616

N 3616

RML 112630

Amblyomma cordiferum 4 ♀4 ♀ Amblyomma cordiferum

Python

Python

Krakatau

Krakatoa Island (06.07 S, 105.24 E),
Indonesia

VII.1924

VII.1924

Dr. K. U. Dammerman

Dr. K. U. Dammerman

C.W. & L.E.R. det

Received from Dr. K. U. Dammerman
Director of Zool. Mus., Buitenzorg,
Java 11.VIII.1926, rec't. acknowl-
edged 13.VIII.1926. Report sent
27.IX.1927 (see Report Book pp. 66,
67.). The n. spp. descr. by Warb-
urton (1927) in Parasitology, vol...
p...

N 3617

N 3617

RML 112631

Amblyomma robinsoni 3 ♂, 1 ♀
CO-TYPES3 ♂, 1 ♀ Amblyomma robinsoni
Lectotype and paralectotypesVaranus komodoensisVaranus komodoensis

Komodo

Komodo Island (08.36 S, 119.30 E),
Lesser Sunda Islands, Indonesia

VII.1923

VII.1923

Museum Buitenzorg, Java

Museum, Bogor, Java

C.W. & L.E.R. det.

Warburton (1927: 408) original descrip-
tion. Lectotype designated: Keirans &
Brewster (1981: 156, 157).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3618	N	3618 MISSING
<u>Ornithodoros</u>			
Villages near Jerusalem, Palestine			
Rec'd 9.IX.1927 alive			
Sent by Dr. Oskar Theodor			
N	3619	N	3619 MISSING
<u>Ornithodoros</u>			
Chickens			
Chicken house near Jerusalem, Palestine			
7.V.1927 (collected)			
Rec'd. 9.IX.1927 in alcohol			
Sent by Dr. Oskar Theodor.			
N	3620	N	3620
		RML	112632
<u>Ixodes canisuga</u> 2 ♀'s		2 ♀ <u>Ixodes crenulatus</u>	
Badger		<u>Meles meles</u>	
Palestine		Israel	
VII.1927		VII.1927	
Sent by Dr. Oskar Theodor		Sent by Dr. Oskar Theodor	

ORIGINAL DETERMINATIONCURRENT STATUS

N 3621

N 3621

RML 112633

Ornithodoros maroccanus2 ♂, 6 ♀, 2 N Ornithodoros erraticus

Pig, man

Sus scrofa & Homo sapiens

Bournika, Morocco

Bournika, Morocco (locality not verified)

Rec'd 17.XI.1927 from
Dr. F. Larrousse

Rec'd 17.XI.1927 from Dr. F. Larrousse

E. Brumpt

E. Brumpt

E. Brumpt det.

4 cast skins present also

See Brumpt's Précis de Paras.
4th ed. 1927. Specimens raised
in his lab. & sent me by his
assistant Dr. Larrousse.

N 3622

N 3622

RML 107234

Ornithodoros coniceps5 ♂, 1 N Ornithodoros coniceps

Pigeon, man

Columba livia & Homo sapiens

Dept. Aude, France

Département de l'Aude (43.05 N,
02.30 E), FranceRec'd 17.XI.1927 from
Dr. F. Larrousse

Rec'd 17.XI.1927 from Dr. F. Larrousse

E. Brumpt

E. Brumpt

E. Brumpt det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3623

N 3623

RML 66617

Ornithodoros crossi1 ♀ 2 N Ornithodoros tholozani
1 ♂ Ornithodoros lahorensis

Camel, etc.

Camelus dromedarius, etc.

Punjab, India

Punjab, Pakistan

Rec'd 17.XI.1927 from
Dr. F. Larrousse

Rec'd 17.XI.1927 from Dr. F. Larrousse

H. E. Cross

H. E. Cross

E. Brumpt det.

N 3624

N 3624

RML 112634

Ixodes dentatus ♂'s, ♀'s
in copula6 ♂, 9 ♀ Ixodes pomerantziSilvilagus ecaudatusSilvilagus brasiliensis andinus

Pichincha, Ecuador 4000 m

Either Pichincha (00.43 S, 75.17 W)
or (01.01 S, 79.49 W), Ecuador (4000 M)

1927

1927

Dr. S. Spillmann S 20

Dr. S. Spillmann S 20

Received from Dr. K. Jordan,
Tring 3.I.1928

G.H.F.N. & C.W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3625

N 3625

RML 112635

Ixodes spinicoxalis 2 N's2 N Ixodes sp.Microtus nov. sp.Microtus sp.

Cotopaxi, Ecuador above 5000 m

Probably Cotopaxi Mtn. (00.40 S,
78.26 W), Ecuador (5000 m)

1927

1927

Dr. Spillmann "M2"

Dr. Spillmann "M2"

Received from Dr. K. Jordan,
Tring 3.I.1928

G.H.F.N. & C.W. det.

3625 undetermined as yet;
much like Ix. tenuirostris N!

N 3626

N 3626

RML 112636

Ixodes anatis 3 ♀3 ♀ Ixodes anatis"Canada Goose", Bernicla
canadensisBranta canadensis

New Plymouth, New Zealand

New Plymouth (39.04 S, 174.05 E),
New Zealand

1927

1927

W. H. Smith
Dr. R. J. Tillyard, Nelson,
N. Zealand sender.

W. H. Smith

C.W. & G.H.F.N. det

Robin John Tillyard (1881-1937)
Educated at Queens College, Cambridge;
in 1928 became Commonwealth Entomologist
for Australia; expert in Odonata and
Neuroptera. He was killed in an auto
accident in Australia. 13.I.1937.

ORIGINAL DETERMINATION

N 3627

Haemaphysalis campanulata 1 ♂

Badger (young) skin 95
Meles chinensis

Tsinan, Shantung, China

2.VII.1926

Dr. E. Hindle donor 11.I.1928

C. W. det. 28.I.1928

3627, 3628, 3629 - Scientific
names of hosts supplied
14 Jan. 1928 by Mt. Oldfield
Thomas, Brit. Mus. to whom
the skins as numbered went.
G.H.F.N. 16.I.1928.

N 3628

Argas vespertilionis larvae

Bat No. 92 (young)
Eptesicus serotinus

Tsinan, Shantung, China

2.VII.1926

Dr. E. Hindle donor 11.I.1928

G.H.F.N. det.

CURRENT STATUS

N 3627

RML 112637

1 ♂ Haemaphysalis campanulata

Meles meles

Tsinan (36.40 N, 117.00 E), Shantung,
Peoples Republic of China

2.VII.1926

Dr. E. Hindle donor 11.I.1928

N 3628

RML 112638

6 ♀ Argas vespertilionis

Eptesicus serotinus

Tsinan (36.40 N, 117.00 E), Shantung,
Peoples Republic of China

2.VII.1926

Dr. E. Hindle donor 11.I.1928

ORIGINAL DETERMINATIONCURRENT STATUS

N 3629

N 3629

RML 112639

Ixodes vespertilionis
1 N, 1 larva1 N, 1 L Ixodes vespertilionisBat No. 93, Rhinolophus
ferrum-equinum nipponRhinolophus ferrumequinum nippon

Tsinan, Shantung, China

Tsinan (36.40 N, 117.00 E), Shantung,
Peoples Republic of China

2.VII.1926

2.VII.1926

Dr. E. Hindle donor 11.I.1928

Dr. E. Hindle donor 11.I.1928

G.H.F.N. det.

N 3630

N 3630

RML 112640

Ornithodoros papillipes3 ♂, 3 ♀ Ornithodoros tholozaniShochrisjabs, Buckara,
TurkestanShochrisjabs, Buckara, Turkistan
(45.00 N, 70.00 E), U.S.S.R.

VI.1927

VI.1927

Dr. J. Moskvina

Dr. J. Moskvina

E. N. Pavlovsky det.

Gift of Professor Pavlovsky,
Zool. Inst. Milit. Acad. of
Med. Leningrad, Russia.
Rec'd 5.III.1928. G.H.F.N.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3631

N 3631

RML 112641

Dermacentor reticulatus ♀1 ♀ Dermacentor niveus

Cyrenaica, N. Africa (Italian)

Cyrenaica (31.00 N, 22.30 E), Libya

Received 6.III.1928

Received 6.III.1928

Received from Dr. Giuseppe Franchini, Bologna

Received from Dr. G. Franchini

C. W. det.

N 3632

N 3632

RML 112642

Aponomma sp. N's16 N Aponomma sp.

Snakes

Snakes

Andagoja, Brit. Columbia

Unknown

Received 6.III.1928

Received 6.III.1928

Received from Dr. Giuseppe Franchini

Received from Dr. G. Franchini

There are no species of Aponomma in British Columbia. The locality is probably in Africa.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3633

N 3633

RML 112643

Amblyomma lepidum ♂'s, ♀'s52 ♂, 21 ♀, 1 N Amblyomma lepidum
1 ♂ Hyalomma truncatum

Giuba

Giuba (00.15 S, 42.38 E), Somali
Democratic Republic

1926

1926

Received from Dr. Giuseppe
Franchini, Bologna 6.III.1928

Received from Dr. G. Franchini

C. W. det.

N 3634

N 3634

RML 112644

Hyalomma aegyptium ♂'s, ♀'s26 ♂, 3 ♀ Hyalomma rufipes
9 ♂, 1 ♀ Hyalomma truncatum
1 ♂, 1 ♀ Rhipicephalus pulchellus

Giuba

Giuba (00.15 S, 42.38 E), Somali
Democratic Republic

1926

1926

Received from Dr. Giuseppe
Franchini, Bologna, 6.III.1928

Received from Dr. G. Franchini

C. W. det.

N 3635

N 3635

RML 112645

Rhipicephalus pulchellus ♂'s, ♀'s4 ♂, 3 ♀ Rhipicephalus pulchellus

Giuba

Giuba (00.15 S, 42.38 E), Somali
Democratic Republic

1926

1926

Received from Dr. Giuseppe
Franchini, Bologna 6.III.1928

Received from Dr. G. Franchini

C. W. det.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3636	N	3636
		RML	112646
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		3 ♂, 1 ♀ <u>Rhipicephalus simus</u> 1 ♂ <u>Rhipicephalus humeralis</u>
	Giuba		Giuba (00.15 S, 42.38 E), Somali Democratic Republic
	1926		1926
	Received from Dr. Giuseppe Franchini, Bologna 6.III.1928		Received from Dr. G. Franchini
	C. W. det.		
N	3637	N	3637
		RML	112647
	<u>Ornithodoros</u> sp. nymph		1 N <u>Ornithodoros</u> sp.
	Camel		<u>Camelus dromedarius</u>
	Kalendieh, Palestine		Kalendieh, Israel (locality not verified)
	II.1926		II.1926
	Dr. O. Theodor, Jerusalem 20.IV.1926		Dr. O. Theodor
	C. W. det.		
N	3638	N	3638
		RML	112648
	<u>Amblyomma cohaerens</u>		3 ♂, 3 ♀ <u>Amblyomma cohaerens</u>
	Buffalo		<u>Syncerus caffer</u>
	Uganda		Uganda
	Chief Veterinary Officer, Uganda		Chief Veterinary Officer, Uganda
	ex I.B.E. 1564		
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3639

N 3639

RML 112649

Dermacentor venustus2 ♂, 2 ♀, 10 N, 36 L, eggs Dermacentor andersoniRaised in lab at Hamilton,
Montana, U.S.A.Raised in lab at Hamilton (46.15 N,
114.09 W), Montana, U.S.A.

1927

1927

R. A. Cooley gift 2.V.1928

R. A. Cooley gift 2.V.1928

R.A.C. det.

Robert Allen Cooley (1873-1968) one of
America's foremost entomologists;
Professor and Head of Department of
Zoology and Entomology, Montana State
College 1899-1931 when he resigned to
become senior entomologist (1931-1946)
at the Rocky Mountain Laboratory,
Hamilton, Montana. Author of classic
taxonomic works on New World family
Argasidae and the genera Dermacentor
and Ixodes.

N 3640

N 3640

RML 112650

Dermacentor venustus
Infected with Ixodiphagus
caurtei1 N Dermacentor andersoni
Infected with Hunterellus hookeriReared in lab at Bozeman,
Montana from stock received
from Dr. E. Brumpt, ParisReared in lab at Bozeman (45.41 N,
111.02 W), Montana U.S.A.

1928

1928

R. A. Cooley gift 2.V.1928

R. A. Cooley gift 2.V.1928

R.A.C. det.

3640A. Nymph of tick showing
pupae in position.3640B. Dry nymph with imago
of parasites that have
escaped.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3641

Dermacentor variabilis ♀

Cheyney, Philadelphia, Penn.
U.S.A.

31.V.1927

Dr. K. Jordan

C. W. det.

3641-3644 received 12.IV.1928.
Reported on 10.V to Dr. K.
Jordan the donor.

N 3642

Ixodes hexagonus var. cookei
1 ♂, 1 ♀, 7 N

Marmota monax

Rolling Rock, Ligonier, Penn.,
U.S.A.

25.VI.1927

Dr. K. Jordan

C. W. det.

N 3641

RML 112651

1 ♀ Dermacentor variabilis

Cheyney (39.56 N, 75.31 W)
Pennsylvania, U.S.A.

31.V.1927

Dr. K. Jordan

For a discussion of this
collecting trip see Jordan
(1928: 178).

N 3642

RML 112652

1 ♂, 1 ♀, 6 N Ixodes cookei

Marmota monax

Rolling Rock, Ligonier (40.15 N,
79.14 W), Pennsylvania, U.S.A.

25.VI.1927

Dr. K. Jordan

ORIGINAL DETERMINATIONCURRENT STATUS

N 3643

N 3643

RML 112653

Dermacentor variabilis N
Peromyscus leucopus1 N Dermacentor variabilis
Peromyscus leucopusPlummer's Isl, Potomac River,
U.S.A.Plummers Island, (38.58 N, 77.10 W),
Maryland, U.S.A.

14.V.1927

14.V.1927

Dr. K. Jordan

Dr. K. Jordan

C.W. det.

N 3644

N 3644 MISSING

Haemaphysalis leachi var.....
♂'s, ♀'s

A small rodent

Anda-Steppe near Harbin, China

Dr. Jettmar

C.W. det.

N 3645

N 3645

RML 112654

Hyalomma aegyptium4 ♂, 1 ♀ Hyalomma dromedarii

No other data.

N 3646

N 3646

RML 112655

Hyalomma aegyptium26 ♂, 8 ♀ Hyalomma dromedarii

No other data.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3647, a, b

N 3647a

RML 112656

(3647) Ornithodoros lahorensis
♂'s, ♀'s, N's, eggs

(3647) MISSING

(a) Rhipicephalus sanguineus ♂'s
& ♀'s(a) 4 ♂, 6 ♀ Rhipicephalus sanguineus(b) Haemaphysalis cinnabarina
punctata 1 ♀

(b) MISSING

Anatolia

Anatolia (39.00 N, 35.00 E), Turkey

(3647) Rec'd 17.VII.1928

(3647) Rec'd 17.VII.1928

(a&b) Rec'd 16.VII.1928

(a&b) Rec'd 16.VII.1928

(3647) Rec'd from M. D. Blagoff
Istanbul, Turkey(3647) Rec'd from M. D. Blagoff
Istanbul, Turkey

(a&b) Donor L. E. Robinson

(a&b) Donor L. E. Robinson

C. W. det.

N 3648

N 3648

RML 97043

Haemaphysalis cinnabarina
var. punctata2 ♂ Haemaphysalis sulcata

Sheep

Sheep

Cyprus

Cyprus

Rec'd 17.VII.1928

Rec'd 17.VII.1928.

Donor Dr. P. A. Buxton

Donor Dr. P. A. Buxton

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3649

N 3649

RML 112657

Argas vespertilionis N's3 L Argas vespertilionis

Bat

Bat

Scarborough, England

Scarborough (54.17 N, 00.26 W), England

Rec'd. 20.VIII.1928

Rec'd. 20.VIII.1928

George B. Walsh

George B. Walsh

G.H.F.N. det.

Reported det. 21.VIII.1928 to
sender "Linthorpe," Stepney
Drive, Scarborough.

G.H.F.N.

N 3650

N 3650 MISSING

Amblyomma marmoreum ♂♂, ♀Varanus sp. attached to skin

Sikwi Island, Lake Victoria,
Nyanza 0.26'S, 34.225'E
[Kenya]

XII.1927

Michael Graham
Donor B. G. Clarke X.1928

N. & W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3651

Ixodes ricinus

Man: off child's chest

S. Wales

Rec'd 22.X.1928

Gift of Dr. K. Jordan

G.H.F.N. det.

On slide.

N 3651 MISSING

N 3652

Ornithodoros gurneyi

Melbourne, Australia

Received XI.1928

Received from P. A. Buxton

C. W. det.

N 3652

RML 112658

1 ♂, 3 N Ornithodoros gurneyiMelbourne (37.50 S, 145.00 E)
Queensland, Australia

Received XI.1928

Received from P. A. Buxton

ORIGINAL DETERMINATIONCURRENT STATUS

N 3653

N 3653

RML 112659

Ixodes tenuirostris

♀'s gorged, 2 ♀ unfed, 2 N's,
3 L, N's & L's on ear

20 ♀, 2 N Ixodes triangulicepsApodemus sylvaticusApodemus sylvaticus

Mill at Oxford

Mill at Oxford (51.45 N, 01.15 W),
England

1926-1928

1926-1928

C. S. Elton coll. & donor

C. S. Elton coll. & donor

C. W. det.

Taken from 29 hosts between
Feb. & Nov. inclusive, some spp.
returned to Elton including an
only male taken in April - most
of the females were taken March,
April & Nov., most of the
nymphs in June. The record
shows the distribution on
host as follows for 20 lots:
7 behind, on and inside ear;
6 on neck; 4 on head front &
top; 2 on shoulder & base of
foreleg; one on flank.

N 3654

N 3654

RML 112660

Ixodes tenuirostris 3 ♀, 1 N 1 L2 ♀, 1 N, 1 L Ixodes triangulicepsMicrotus agrestisMicrotus agrestis

Mill at Oxford

Mill at Oxford (51.45 N, 01.15 W),
England

1926-1927

1926-1927

C. S. Elton coll. & donor

C. S. Elton coll. & donor

C. W. det.

Collected from 4 hosts in March,
April, Oct., Dec. 1926-1927.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3655

N 3655

RML 112661

Ixodes tenuirostris 4 ♀, N's & L,
N's & L's attached to ear

2 ♀, 7 N, 1 L Ixodes trianguliceps

Evotomys glariolus
Mill at Oxford

Clethrionomys glareolus
Mill at Oxford (51.45 N, 01.15 W),
England

1926-1928

1926-1928

C. S. Elton coll. & donor

C. S. Elton coll. & donor

C. W. det.

Taken from 13 hosts. Females
taken in April, July, September.
Nymphs in June and July.
Larvae in July & December.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3656

N 3656

RML 112662

Amblyomma sp. larvae58 L Amblyomma sp.Man, from a planter's leg,
over 400 collectedHomo sapiens

Kuala Lumpur, F. Malay States

Kuala Lumpur (03.10 N, 101.42 E),
Malaysia

Sent 23.I.1929

Sent 23.I.1929

Mr. B.A.R. Gater, Entomologist
Inst. Med. Research

Mr. B.A.R. Gater

C. W. det.

Mr. Gater asked if these = A. testudinarium. C.W. reports they are Ambly. & may be testudinarium - I advised Gater to try & get eggs & raise larvae to make sure. This the first record he believes "of ticks attacking man in this country." The planter put his leg in a hole covered by plant. Slight irritation caused for some weeks. "Malay's say they get them occasionally but we never see them."

ORIGINAL DETERMINATIONCURRENT STATUS

N 3657

Amblyomma nitidum ♂, ♀, NLaticauda laticaudatus

Port Blair Andamans

31.V.1926

Dr. A. Bayler de Costa

M. Sharif gift 1929

N 3657

RML 22315

1 ♂, 1 ♀, 1 N Amblyomma nitidumLaticauda laticaudataPort Blair (11.36 N, 92.45 E),
Andaman Islands, India

31.V.1926

Dr. A. Bayler de Costa

Cited: Sharif (1928: 328)

6 slides of dissections

♂ & ♀ hypostomes

♂ & ♀ spiracular plates

♂ & ♀ legs I & IV

N 3658

Haemaphysalis cornigera
var. anomala ♀

Bullock & cow

Ramgarti Hazaribagh District
Bihar

M. Ming donor.

M. Sharif gift 1929

N 3658

RML 82979

1 ♀ Haemaphysalis anomala

Bullock & cow

Ramgarh, Hazaribagh (23.59 N, 85.21 E),
India

M. Ming donor.

M. Sharif gift 1929

Cited: Sharif (1928: 274).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3659

Hyalomma (Hyalommina) kumari
♂, ♀Hemitragus hyllocrius

Parambikulam, Cochin State

16-24.IX.1924

F. A. Gravely

M. Sharif det. & gift 1929

(on label "Exch $\frac{2173}{17}$ ")

N 3659

RML 71485

2 ♂, 2 ♀ Hyalomma kumari
SYNTYPESHemitragus hyllocrius

Parambikolam (10.23 N, 76.49 E), India

16-24.IX.1924

F. A. Gravely

Sharif (1928: 319) original description.
Cited: Kaiser & Hoogstraal (1964: 262).

N 3660

Hyalomma (Hyalommina) hussani
♂'s, ♀'s

Bullock

Gaya

11.II.1926

M. Sharif gift 1929

M. Sharif det.

N 3660

RML 66581

3 ♂, 5 ♀ Hyalomma hussani

Bullock

Gaya (24.47 N, 85.00 E), India

11.II.1926

M. Sharif gift 1929

Cited: Kaiser & Hoogstraal
(1964: 270).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3661

N 3661

RML 66608

Hyalomma (Hyalomma) aegyptium
sub. sp. isaaci1 ♂, 1 ♀ Hyalomma marginatum isaaci
SYNTYPES

Buffalo

Buffalo

Kandeli, Hoshangabad
Central ProvincesKandeli, Hoshangabad Central Provinces,
India (locality not verified)

8.I.1926

8.I.1926

M. Sharif gift 1929

M. Sharif gift 1929

M. Sharif gift

Sharif (1928: 307) original description.

(On label "Exch $\frac{60}{18}$ ").

N 3662

N 3662

RML 112663

Ixodes angustus N's
Ixodes auritulus unfed N4 ♀, 1 N Ixodes soricisSorex sp.Sorex sp.

Salt Spring Isld., Canada

Saltspring Island (48.50 N, 123.30 W),
British Columbia, Canada

20.VIII.1925

20.VIII.1925

K. Racey, Vancouver, Canada

K. Racey, Vancouver, Canada

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3663, a

N 3663

RML 112664

(3663) Ixodes angustus ♀
(large sp.)1 ♀, 18 N Ixodes angustus(a) Ixodes auritulus nymph (small)Ochotona canadensisOchotona princeps

Mous, B.C. 2200 ft.

Mous, British Columbia, Canada
(locality not verified) (671 m)

27.IX.1927

27.IX.1927

K. Racey, Vancouver, Canada

K. Racey, Vancouver, Canada

C. W. det.

N 3664

N 3664

RML 112665

Ixodes sp. (nymphs)1 N Ixodes sp.Sciurus sp.Sciurus sp.

Mous, B.C. 2200 ft.

Mous, British Columbia, Canada
(locality not verified) (671 m)

27.IX.1927

27.IX.1927

K. Racey, Vancouver, Canada

K. Racey, Vancouver, Canada

C. W. det.

Mutilated specimen

? Ix. texanus

ORIGINAL DETERMINATIONCURRENT STATUS

N	3665	N	3665
	<u>Ixodes angustus</u> ♀'s	RML	112666
	<u>Ochotona canadensis</u>		3 ♀ <u>Ixodes ochotonae</u>
	Mous, B.C. 2200 ft.		<u>Ochotona princeps</u>
	30.VII.1928		Mous, British Columbia, Canada (locality not verified) (671 m)
	K. Racey, Vancouver, Canada		30.VII.1928
	C. W. det.		K. Racey, Vancouver, Canada
N	3666	N	3666
	<u>Haemaphysalis hystrix</u>	RML	112667
	Wild pig		1 ♂ <u>Haemaphysalis traguli</u>
	East Central Dutch Borneo		3 ♂, 4 ♀ <u>Haemaphysalis semermis</u>
	1929		1 ♂, 5 ♀ <u>Haemaphysalis nodchatrami</u>
	Malte von Kühlerwein		PARATYPES
	Sent to us by Mr. J. J. Cox, Tring, Herts		<u>Sus scrofa</u>
			East Central Borneo
			1929
			Malte von Kühlerwein
			Hoogstraal et al (1965b: 433) original description of <u>H. nadchatrami</u> . The <u>H. semermis</u> collection cited: Hoogstraal et al (1965b: 435).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3667	N	3667
		RML	112668
	<u>Dermacentor auratus</u> ♂'s, ♀'s		6 ♂, 2 ♀ <u>Dermacentor</u> sp.
	Wild pig		<u>Sus scrofa</u>
	East Central Dutch Borneo		East Central Borneo
	1929		1929
	Malte von Kühlerwein		Malte von Kühlerwein
	Sent to us by Mr. J. J. Cox Tring, Herts.		
N	3668	N	3668
		RML	112669
	<u>Rhipicephalus complanatus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Rhipicephalus complanatus</u>
	Mangara, Belgian Congo		Mangara, Zaire (locality not verified)
	VI.1929		VI.1929
	Sent by Prof. Franchini, Bologna		Sent by Prof. G. Franchini
	C. W. det.		
N	3669	N	3669
		RML	112670
	<u>Rhipicephalus falcatus</u> ♂, ♀		8 ♂, 18 ♀ <u>Rhipicephalus longus</u>
	Mangara, Belgian Congo		Mangara, Zaire (locality not verified)
	VI.1929		VI.1929
	Sent by Prof. Franchini, Bologna		Sent by Prof. G. Franchini
	C. W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3670	N	3670
		RML	112671
	<u>Amblyomma lepidum</u> ♂'s, ♀'s		3 ♂, 3 ♀ <u>Amblyomma lepidum</u>
	Camels		<u>Camelus dromedarius</u>
	Agordat, Eritraea		Agordat (15.32 N, 37.52 E), Somali Democratic Republic
	IV.1929		IV.1929
	Sent by Prof. Franchini, Bologna		Sent by Prof. G. Franchini
N	3671	N	3671
		RML	112672
	<u>Haemaphysalis leachi</u>		28 ♂, 2 ♀ <u>Haemaphysalis leachi</u>
	Belgian Congo		Zaire
	IV.1929		IV.1929
	Sent by Prof. Franchini, Bologna		Sent by Prof. G. Franchini
	C. W. det.		
N	3672	N	3672
		RML	112673
	<u>Amblyomma personatum</u> ♂, ♀		1 ♂, 1 ♀ <u>Amblyomma personatum</u>
	Rhinoceros		<u>Diceros bicornis</u> or <u>Ceratotherium simum</u>
	Limurn		Limurn, Africa (locality not verified) although this is possibly Limuru, Kenya
	VIII.1927		VIII.1927
	Gift I.B.E. (1571)		Gift I.B.E. (1571)
	C. W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3673	N	3673
		RML	112674
	<u>Haemaphysalis cinnabarina</u> var. <u>punctata</u> 3 ♂, 3 ♀		3 ♂, 3 ♀ <u>Haemaphysalis sulcata</u>
	Goat		Goat
	Berson		Berson (locality unknown)
	22.I.1929		22.I.1929
	Gift I.B.E. (1680)		Gift I.B.E. (1680)
	C. W. det.		
N	3674	N	3674
		RML	112675
	<u>Haemaphysalis calcarata</u> var. <u>houyi</u> ♂, ♀, N		2 ♂, 1 ♀, 1 N <u>Haemaphysalis houyi</u>
	<u>Euxerus microdon</u>		<u>Euxerus erythropus microdon</u>
	Machokos, Kenya Colony		Machakos (03.31 S, 37.16 E), Kenya
	6.XI.1928		6.XI.1928
	Gift I.B.E. (1665)		Gift I.B.E. (1665)
	C. W. det.		<u>Euxerus</u> is often included within the genus <u>Xerus</u> , for unstriped ground squirrels.
N	3675	N	3675
		RML	112676
	<u>Rhipicephalus cuspidatus</u> ♂, ♀, N		6 ♂, 6 ♀, 1 N <u>Rhipicephalus cuspidatus</u>
	<u>Phacocère</u> (wart hog)		<u>Phacochoerus aethiopicus</u>
	Africa ?		Africa
	2.II.1928		2.II.1928
	A. Theodor Monod coll. & gift		A. Theodor Monod coll. & gift
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3676	N	3676
		RML	112677
	<u>Amblyomma triguttatum</u>		1 ♀, 1 N <u>Amblyomma triguttatum</u>
	Kangaroo		Kangaroo
	Gogo Stn. Kimberley Div. W.A.		Gogo (18.17 S, 125.35 E) Western Australia, Australia
	Sent 19.IX.1929		Sent 19.IX.1929
	Coll. Mr. Hill of Melbourne. Sent by Dr. P. A. Buxton 19.IX.1929		Mr. Hill
	C. W. det.		
N	3677	N	3677 MISSING
	<u>Ixodes caledonicus</u> ♀'s, N's, L's		
	Jackdaw		
	Scarborough		
	18.VI.1927		
	G. B. Walsh gift		
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3678, a

N 3678, a

RML 105785

(3678) Hyalomma sp.
(a) Rhipicephalus simus

(3678) 5 ♂, 2 ♀ Hyalomma truncatum
(a) 2 ♂, 2 ♀ Rhipicephalus jeanneli
(a) 1 ♀ Rhipicephalus hurti

Phacochoerus aethiopicusPhacochoerus aethiopicus

Cedarwood, Kenya Colony
E. Africa

Cedarwood Estate (00.06 S, 36.39 E),
Kenya

21.IX.1929

21.IX.1929

G.H.F. Nuttall & R. Daubney
Shot by G.H.F.N.

G.H.F. Nuttall & R. Daubney
Shot by G.H.F.N.

C. W. det.

No's. 3678-2692 collected at
points marked by me in this
rough map.

G.H.F.N.

Cedarwood estate of Mr. Ryder,
Abardare Mts. ca 9000 ft.
(ca 154 miles by road from
Nairobi).

N 3679, a

N 3679a

RML 112678

(3679) Ixodes pilosus ♀
(a) Rhipicephalus evertsi

(3679) MISSING
(a) 8 ♂, 2 ♀ Rhipicephalus evertsi

Sheep (domestic) (Lot 1)

Sheep (domestic)

Cedarwood, Kenya Colony,
E. Africa

Cedarwood Estate (00.06 S, 36.39 E),
Kenya

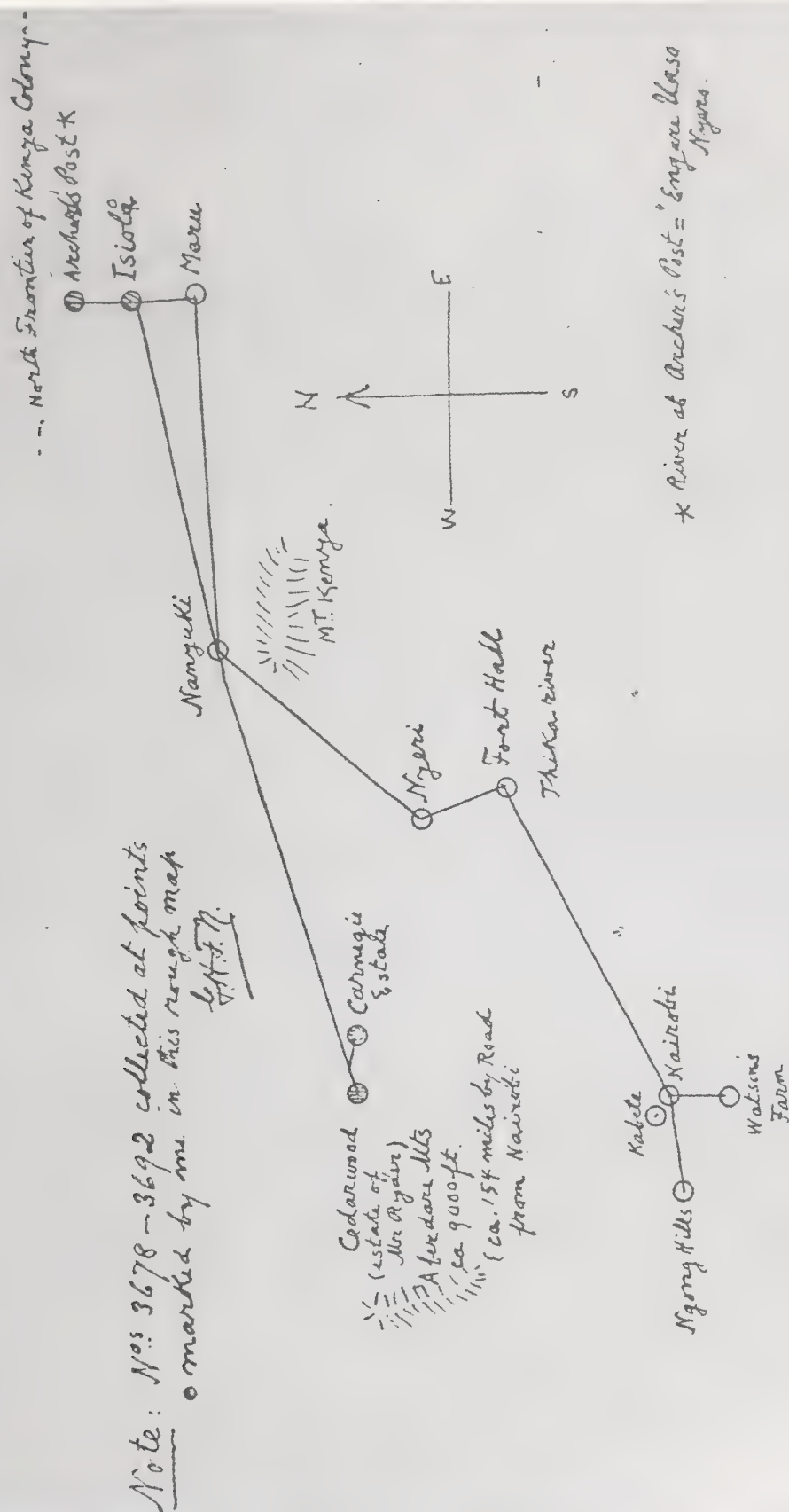
19.IX.1929

19.IX.1929

G.H.F. Nuttall & R. Daubney
Shot by G.H.F.N.

G.H.F. Nuttall & R. Daubney
Shot by G.H.F.N.

C. W. det.



Map 2.--Collecting localities for N 3678-3692.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3680, a

N 3680

RML 112679

(3680) Rhipicephalus evertsi
(a) Hyalomma sp.(3680) 3 ♂, 2 ♀ Rhipicephalus evertsi
(a) 9 ♂, 2 ♀ Hyalomma truncatum

Sheep (domestic) (Lot 2)

Sheep (domestic)

Cedarwood, Kenya Colony,
E. AfricaCedarwood Estate (00.06 S, 36.39 E),
Kenya

19.IX.1929

21.IX.1929

G.H.F. Nuttall & R. Daubney
Shot by G.H.F.N.G.H.F. Nuttall & R. Daubney
Shot by G.H.F.N.

C. W. det.

Date taken from vial label.

N 3681, a

N 3681, a

RML 66662

(3681) Ixodes schillingsi
(a) Rhipicephalus evertsi L(3681) 1 ♀ Ixodes cavipalpus
(a) 1 L Rhipicephalus evertsiColobus sp.Colobus sp.Cedarwood, Kenya Colony
E. AfricaCedarwood Estate (00.06 S, 36.39 E),
Kenya

19.IX.1929

19.IX.1929

G.H.F. Nuttall & R. Daubney
Shot by G.H.F.N.G.H.F. Nuttall & R. Daubney
Shot by G.H.F.N.

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3682

Ixodes schillingsi ♀Colobus caudatus ♂
(monkey, from axilla)Cedarwood, Kenya Colony,
E. Africa

18.IX.1929

Shot by G.H.F. Nuttall

C. W. det.

N 3682

RML 112680

1 ♀ Ixodes schillingsiColobus guereza caudatus ♂Cedarwood Estate (00.06 S, 36.39 E),
Kenya

18.IX.1929

Shot by G.H.F. Nuttall

N 3683

Ixodes schillingsi N & LColobus caudatus ♀
(from eyelids)Cedarwood, Kenya Colony,
E. Africa

18.IX.1929

Shot by G.H.F. Nuttall

C. W. det.

N 3683

RML 112681

1 N, 1 L Ixodes schillingsiColobus guereza caudatus ♀Cedarwood Estate (00.06 S, 36.39 E),
Kenya

18.IX.1929

Shot by G.H.F. Nuttall

Cited: Arthur (1957a: 545)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3684	N	3684
		RML	112682
	<u>Ixodes schillingsi</u> ♀'s		3 ♀ <u>Ixodes schillingsi</u>
	<u>Colobus caudatus</u> ♀ (from axilla)		<u>Colobus guereza caudatus</u> ♀
	Cedarwood, Kenya Colony, E. Africa		Cedarwood Estate (00.06 S, 36.39 E), Kenya
	18.IX.1929		18.IX.1929
	Shot by G.H.F. Nuttall		Shot by G.H.F. Nuttall
	C. W. det.		
N	3685	N	3685
		RML	112683
	<u>Amblyomma variegatum</u> ♂		1 ♂ <u>Amblyomma variegatum</u>
	Cow		Cow
	Carnegie Estate, Kenya Colony, East Africa		Carnegie Estate (00.06 S, 36.40 E), Kenya
	17.IX.1929		17.IX.1929
	G.H.F. Nuttall		G.H.F. Nuttall
	C. W. det.		
N	3686	N	3686
		RML	112684
	<u>Hyalomma aegyptium</u>		2 ♂, 4 ♀ <u>Hyalomma truncatum</u>
	Cow		Cow
	Carnegie Estate, Kenya Colony, East Africa		Carnegie Estate (00.06 S, 36.40 E), Kenya
	17.IX.1929		17.IX.1929
	G.H.F. Nuttall		G.H.F. Nuttall
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3687	N	3687
		RML	112685
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		10 ♂, 6 ♀ <u>Rhipicephalus evertsi</u>
	Angora goats		Goats, angora
	Carnegie Estate, Kenya Colony, East Africa		Carnegie Estate (00.06 S, 36.40 E), Kenya
	17.IX.1929		17.IX.1929
	G.H.F. Nuttall		G.H.F. Nuttall
	C. W. det.		
N	3688	N	3688
		RML	112686
	<u>Rhipicephalus evertsi</u>		1 ♂, 2 ♀ <u>Rhipicephalus evertsi</u>
	<u>Oryx beisa</u> ♂ (antelope)		<u>Oryx beisa</u> ♂
	Isiolo, Kenya Colony, East Africa		Isiolo (00.21 N, 37.35 E), Kenya
	22.IX.1929		22.IX.1929
	Shot by Kelly (G.H.F. Nuttall present)		Shot by Kelly (G.H.F. Nuttall present)
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3689, a

N 3689, a

RML 112687

(3689) Amblyomma variegatum 2 N
(a) Rhipicephalus evertsi(3689) 2 N Amblyomma variegatum
(a) 8 ♂, 3 ♀, 13 N Rhipicephalus evertsiLithocranius walleri ♂
"Gerenuk" (antelope)
From ears, perinaeum, axillaLithocranius walleri ♂

Isiolo, Kenya Colony, East Africa

Isiolo (00.21 N, 37.35 E), Kenya

22.IX.1929

22.IX.1929

Shot by G.H.F.N.

Shot by G.H.F.N.

C. W. det.

(R. evertsi from ears only)

N 3690

N 3690

RML 112688

Rhipicephalus evertsi N & L10 N, 18 L Rhipicephalus evertsiLithocranius walleriLithocranius walleri

Isiolo, Kenya Colony, East Africa

Isiolo (00.21 N, 37.35 E), Kenya

23.IX.1929

23.IX.1929

Shot by R. Daubney

Shot by R. Daubney

C. W. det.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3691	N	3691
		RML	112689
	<u>Rhipicephalus evertsi</u> N & L		1 N, 8 L <u>Rhipicephalus evertsi</u>
	<u>Lithocranius walleri</u>		<u>Lithocranius walleri</u>
	Ngare & Ndari River Barsaloi Road, N. Frontier		Engare, Ondare River (00.35 N, 37.23 E), Kenya
	23.IX.1929		23.IX.1929
	Shot by R. Daubney		Shot by R. Daubney
	C. W. det.		
N	3692	N	3692
		RML	112690
	<u>Rhipicephalus pulchellus</u> ♂		1 ♂ <u>Rhipicephalus pulchellus</u>
	On man's neck		<u>Homo sapiens</u>
	S. of Nairobi		South of Nairobi (01.17 S, 36.49 E), Kenya
	24.VIII.1929		24.VIII.1929
	C. W. det.		
N	3693	N	3693
		RML	112691
	<u>Rhipicentor nuttalli</u>		2 ♂, 2 ♀ <u>Rhipicentor nuttalli</u>
	Porcupine		Probably <u>Hystrix africaeaustralis</u>
	Sandown, Near Bulawayo, S. Rhodesia		Sandown, near Bulawayo (20.09 S, 28.35 E), Zimbabwe
	4.V.1917		4.V.1917
	J. W. Shoebottom		J. W. Shoebottom
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3694, a, b

(3694) Ixodes caledonicus
 (a) Ixodes caledonicus
 (b) Ixodes caledonicus

(3694) Hawk
 (a) Jackdaw
 (b) Kestrel & Jackdaw

Newcastleton, Roxburghshire

V.1930

J. Macleod coll. & gift

N. det.

N 3695

Ixodes canisuga 1 ♂
 Nymphal skin ♀, ♀'s & eggs

Dogs

Shaws, Lunds, Sedbergh, Yorks

VI.1930

R. A. Scott Macfie coll. & gift

N. det.

N 3694

RML 112692

(3694) ♀ Ixodes caledonicus
 (a) 1 ♀, 1 N, 31 L Ixodes caledonicus
 (b) 6 ♂, 6 N, 46 L Ixodes caledonicus

(3694) Hawk
 (a) Corvus monedula
 (b) Falco tinnunculus & Corvus monedula

Newcastleton (55.10 N, 02.49 W), Scotland

V.1930

J. Macleod coll. & gift

N 3695

RML 112693

1 ♂, 23 ♀, 1 N Ixodes canisuga

Dogs

Shaws, Lunds, Sedbergh (54.19 N, 02.31 W), England

VI.1930

R. A. Scott Macfie coll. & gift

ORIGINAL DETERMINATIONCURRENT STATUS

N 3696

N 3696

RML 112694

Haemaphysalis bispinosa5 ♂, 18 ♀, 110 N, 44 L Haemaphysalis bispinosa

Milch cow

Cow

Cochin State, S. India

Kerala State (10.25 N, 76.30 E), India

Rec'd. 3.XII.1929

Rec'd. 3.XII.1929

C. W. Venkasksubla
Entomologist, Cochin StateC. W. Venkasksubla
Entomologist, Cochin State

C. W. det.

N 3697

N 3697

RML 112695

Hyalomma aegyptium2 ♂, 1 ♀ Hyalomma rufipes
1 ♂, 7 ♀ Hyalomma truncatum

Cattle

Cattle

Epworth South Rhodesia

Probably Epworth Mission (17.52 S,
31.08 E), Zimbabwe

16.II.1929

16.II.1929

H. S. Leeson, Rhodesia

H. S. Leeson, Rhodesia

P. A. Buxton gift

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3698

Rhipicephalus sanguineus

Dog

Tangier

11.VII.1930

P. A. Buxton coll. & gift

C. W. det.

Unusually large. C.W.

N 3698

RML 112696

12 ♀ Rhipicephalus sanguineus

Dog

Tangier (35.48 N, 05.48 W), Morocco

11.VII.1930

P. A. Buxton coll. & gift

N 3699

Hyalomma syriacum

Tortoise

Tangier

11.VII.1930

P. A. Buxton coll. & gift

C. W. det.

N 3699

RML 112697

31 ♂, 4 ♀ Hyalomma aegyptium

Tortoise

Tangier (35.48 N, 05.48 W), Morocco

11.VII.1930

P. A. Buxton coll. & gift

N 3700

Hyalomma syriacum

Tortoise

Shelford near Cambridge

Dr. H. P. Bayon coll. & gift

N. det.

N 3700

RML 112698

2 ♂, 2 ♀ Hyalomma aegyptium

Tortoise

Shelford (52.08 N, 00.08 E), England

Dr. H. P. Bayon coll. & gift

Nos. 3701-3705 are gifts of Miss S. Finnegan of the British Museum (Nat. Hist.) the Nos. of their tubes being 695, 2243 & 2343c, 2793 and no number on last tube (See Report p. 109):-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3701	N	3701 MISSING
	<u>Amblyomma oblongoguttatum</u> ♀		
	Near a camp on the Essequibo River, British Guiana		
	22.VIII.1929		
	O. W. Richards		
	Gift of Brit. Mus.		
	C. W. det.		
N	3702	N	3702
		RML	112699
	<u>Amblyomma incisum</u> ♂, ♀		1 ♂, 1♀ <u>Amblyomma incisum</u>
	Tapir especially pubic region		<u>Tapirus</u> sp.
	Near a camp on the Essequibo River, British Guiana		Near a camp on the Essequibo River (06.59 N, 58.23 W), Guyana
	19.IX.1929		19.IX.1929
	O. W. Richards		O. W. Richards
	Gift of Brit. Mus.		
	C. W. det.		

ORIGINAL DETERMINATION

N 3703

Amblyomma coelebs

Tapir

Near a camp on the Essequibo River,
British Guiana

19.IX.1929

O. W. Richards

Gift of Brit. Mus.

C. W. det.

N 3704

Amblyomma oblongoguttatum ♀Tapir
90 ft. up a treeNear a camp on the Essequibo River,
British Guiana

25.IX.1929

O. W. Richards

Gift of Brit. Mus.

C. W. det.

CURRENT STATUS

N 3703

RML 112700

2 ♂ Amblyomma coelebsTapirus sp.Near a camp on the Essequibo River
(06.59 N, 58.23 W), Guyana

19.IX.1929

O. W. Richards

N 3704

RML 112701

1 ♀ Ambloyomma oblongoguttatumTapirus sp.
27 m up a treeMoraballi Creek (06.53 N, 59.20 W),
Essequibo River, Guyana

25.IX.1929

O. W. Richards

Locality taken from vial label

Oxford University Expedition to
British Guiana

ORIGINAL DETERMINATIONCURRENT STATUS

N 3705

N 3705

RML 112702

Haemaphysalis kochi ♂1 ♂ Haemaphysalis juxtakochi

Deer

Deer

Near a camp on the Essequibo River,
British GuianaNear a camp on the Essequibo River
(06.59 N, 58.23 W), Guyana

25.IX.1929

25.IX.1929

O. W. Richards

O. W. Richards

Gift of Brit. Mus.

C. W. det.

N 3706

N 3706

RML 112703

Hyalomma lusitanicum ♀'s
Rec'd alive/gorged42 ♂, 49 ♀, 266 N, ±333 L Hyalomma
lusitanicum (in 8 vials)

Algiers

Algiers (36.47 N, 03.03 E), Algeria

Posted 14.XII, rec'd 20.XII.1930

Posted 14.XII, rec'd 20.XII.1930

Rec'd from Dr. Edmond Sergent
Inst. PasteurRec'd from Dr. Edmond Sergent
Inst. PasteurH. lusitanicum raised by H. S. Purchase
here 1931 not 1930 as on labels.

Tentative ID.

1. ♂'s, ♀'s, ex ♀ 2
2. ♂'s, ♀'s, ex ♀ 6
3. N's gorged ex lot 4
4. N's unfed ex lot 4
5. L's gorged ex lot 4
6. L's gorged ex lot 3
7. L's unfed ex lot 4
8. L's to N's ext lot 3.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3707

Hyalomma aegyptium ♀'s
N's and ♂'s, ♀'s rec'd dead

Cairo

Rec'd. from Soliman El Zowhari,
Ministry of Agriculture, Cairo,
Egypt (per S. Hadwen)

3707 Hyalomma aegyptium raised
1931 etc. as above [3706]

1. Larvae unfed ex ♀ 7
2. N's moulted skins ex ♀ 7
3. N's gorged ex ♀ 7
4. ♀'s unfed ex ♀ 7
5. ♀'s unfed ex ♀ 7
6. ♂'s, ♀'s unfed ex ♀ 3

N 3708

Dermacentor albipictus

Moose

Canada

Rec'd IV.1931

Gift of Prof. R. A. Cooley,
Bozeman, Mont.

R. A. C. det.

N 3707

RML 112704

26 ♂, 23 ♀ Hyalomma dromedarii
also 6 vials of H. dromedarii as
follows: 13 ♂, 18 ♀, 55 ♀, 57 ♂,
1 vial N skins, 19 N, +1000 L

Cairo (30.03 N, 31.15 E), Egypt

Rec'd from Soliman El Zowhari,
Ministry of Agriculture, Cairo,
Egypt (per S. Hadwen)

N 3708

RML 112705

33 ♂, 29 ♀ Dermacentor albipictusAlces alces

Alberta, Canada

Rec'd IV.1931

H. H. Cochrane

Province locality and collector's
name taken from vial label.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3709

Amblyomma nuttalli

Tortoise

Onderstepoort

Sent 1931

Dr. P. J. du Toit

Sent to R. W. Mettam here

N 3709

RML 112706

1 ♀, 11 L Amblyomma nuttalli

Tortoise

Onderstepoort (25.39 S, 28.11 E),
Republic of South Africa

Sent 1931

Dr. P. J. du Toit

Cited: Theiler & Salisbury
(1959: 116).

N 3710

Amblyomma cohaerens ♂'s, ♀'s, N's

Buffalo

Namagongo & Bugongo, Uganda

Rec'd 20.XII.1930

E. G. Gibbins

I.B.E. gift

C. W. det.

N 3710

RML 112707

28 ♂, 12 ♀ Amblyomma cohaerensSyncerus cafferNamagongo (locality not verified)
& Bugongo (00.51 N, 33.24 E),
Uganda

Rec'd 20.XII.1930

E. G. Gibbins

ORIGINAL DETERMINATIONCURRENT STATUS

N 3711

Haemaphysalis wellingtoni ♂'s, ♀'s

Kangaroo

Dutch East Indies

V.1930

Dr. Kühlwein

Sent by Dr. Jordan, Tring

C. W. det.

N 3711

RML 112708

3 ♂, 1 ♀ Haemaphysalis bancrofti

Pig

Indonesia

V.1930

Dr. M. von Kuhlwein

Vial label indicates the host as
a pig, which is probably correct.

N 3712

Hyalomma aegyptium

Biskra [Algeria]

Rec'd 4.VIII.1931

Dr. Ed Sergent

N 3712 MISSING

ORIGINAL DETERMINATION

N 3713

Amblyomma nodosum ♂'s, ♀'sTamandua tetradactyla mexicana
(ant eater)

Mexico

Rec'd 10.VI.1931

C. E. Sanborn donor

C. W. det. 11.VI.1931

Sent by C. E. Sanborn, Head of Entomol. Dept., Oklahoma Agric. & Mechanical College, Stillwater, Oklahoma, U.S.A. 26.V.1931 who kept duplicates. The host had wintered in Oklahoma and had come from a farm in Laredo, Texas. Sender thinks it must have come from southern Mexico. Sender thought tick "related" to A. nodosum (Notes from sender's 3 letters on the subject dated 26 & 29 May & 23.VI.31, destroyed G.H.F.N.).

CURRENT STATUS

N 3713

RML 112709

7 ♂, 1 ♀ Amblyomma nodosumTamandua tetradactyla

Mexico

Rec'd 10.VI.1931

C. E. Sanborn donor

ORIGINAL DETERMINATIONCURRENT STATUS

N 3714

N 3714

Rhipicephalus sanguineus2 ♂, 5 ♀ one partly fed
(pinned specimens)Lesser Bustard (ticks off
occipital region)

Dar Es Salaam, East Africa

Sent 18.VIII.1928 by J. W. McHardy

Dr. Shircore

C. W. det. 29.X.1931

Sent by John W. McHardy, Entomologist,
Deputy Director of Laboratory Service,
Dar Es Salaam with letter dated
18.VIII.1928, stating ticks recently
collected. Wanted to know sp. of
Rhip. Reply 29.X.1931. (letter
destroyed G.H.F.N. 30.X.1931).

RML 112710

2 ♂, 5 ♀ Rhipicephalus sanguineus
Pinned specimensBustard, Lesser (name not verified)
Not Tetrax tetrax; probably a
species of NeotisDar Es Salaam (06.48 S, 39.17 E),
Tanzania

Sent 18.VIII.1928 by J. W. McHardy

Dr. Shircore

N 3715

N 3715

Rhipicephalus sanguineus ♂'s, ♀'s fed

Dog

Papua, nr. coast

Rec'd 29.II.1932 sent 2.XII.1931

H.O.C. Littlechild, Govt. Medical
Patrol, Territory of Papua

C. W. & N. det. 29.II.1932.

RML 112711

7 ♂, 5 ♀ Rhipicephalus sanguineus

Dog

Papua New Guinea

Rec'd 29.II.1932

H.O.C. Littlechild, Govt. Medical
Patrol, Territory of Papua

ORIGINAL DETERMINATIONCURRENT STATUS

N 3716

N 3716

RML 102803

Argas yespertilionis 1 adult1 ♂ Argas confusus

Found in house

Found in house

Pretoria, S. Africa

Pretoria (25.45 S, 28.10 E),
Republic of South Africa

I.1932 (Rec'd 24.II.1932)

I.1932 (Rec'd 24.II.1932)

G.A.H. Bedford
P.O. 593, Pretoria

G.A.H. Bedford

Bedford et. (confirmed by N.)

Cited: Hoogstraal (1955b: 593)

Important: No's. 3717-3719-3720-3721 record Mr. E. A. Lewis's success in
raising these species for the first time. G.H.F.N. 14.III.1932:-

N 3717

N 3717

RML 66668

Hyalomma impressum albiparmatumHyalomma truncatum(a) ♀ parent of b-g; (b) L's unfed;
(c) L's gorged; (d) N's moulted on
host (unfed); (e) N's gorged;
(f) ♂'s, ♀'s not hardened (unfed);
(g) ♂'s, ♀'s hardened 21 days (unfed)(a) 1 ♀; (b) 126 L; (c) 30 L;
(d) 47 N; (e) 70 N; (f) 14 ♂, 10 ♀;
(g) 10 ♂, 19 ♀(a) Cattle (groin)
(c) Calf (ears)
(d), (e) Rabbit (ears) Lepus capensis
crawshayi(a) Cattle (groin)
(c) Calf (ears)
(d), (e) Rabbit (ears) Lepus
crawshayi

(a) Naivasha Kenya

(a) Naivasha (00.43 S, 36.26 E),
Kenya

(b-g) Kabete, Kenya

(b-g) Kabete (01.16 S, 36.43 E),
Kenya(a) 7.X.1931
(c) 20.XI.1931
(d) 21.XI.1931(a) 7.X.1931
(c) 20.XI.1931
(d) 21.XI.1931

E. A. Lewis (1-7)

E. A. Lewis (1-7)

E.A.L. det.

ORIGINAL DETERMINATION

N 3718

Rhipicephalus maculatus 2 ♂Elephas africanus (on abdomen)

Tana River, Kipini, Kenya

8.XII.1931

E. A. Lewis (8)

N. & C. W. det.

N 3719

Rhipicephalus pulchellus
L's (unfed) N's unfed

Hare

Raised in laboratory, Kabete, Kenya

15.I.1932

E. A. Lewis (24,25)

E.A.L. det.

CURRENT STATUS

N 3718

RML 112712

2 ♂ Rhipicephalus maculatusLoxodonta africanaTana River (02.32 S, 40.31 E),
Kenya

8.XII.1931

N 3719

RML 112713

8 N, 30 L Rhipicephalus pulchellus

Hare

Raised in laboratory, Kabete
(01.16 S, 36.43 E), Kenya

15.I.1932

E. A. Lewis (24,25)

Several eggs present also

ORIGINAL DETERMINATIONCURRENT STATUS

N 3720

Haemaphysalis aciculifer
parent ♀ are unfed L's
N's (unfed)

Rabbit (ear)

Raised in laboratory, Kabete, Kenya

12.X.1931

E. A. Lewis (26,27)

E.A.L. det.

N 3720

RML 112714

1 ♀, 47 N, 228 L Haemaphysalis
aciculifer

Rabbit (ear)

Raised in laboratory, Kabete
(01.16 S, 36.43 E), Kenya

12.X.1931

E. A. Lewis (26,27)

N 3721

Amblyomma variegatum

L's unfed
L's gorged
N's

Rabbit (larvae)
Hare (nymphs)

Raised in laboratory, Kabete, Kenya

13.XI.1931 (larvae)

1.XII.1931 (nymphs)

E. A. Lewis (28-30)

E.A.L. det.

N 3721

RML 112715

7 N, 89 L (unfed), 5 L (gorged)
Amblyomma variegatum

Rabbit (larvae)
Hare (nymphs)

Raised in laboratory, Kabete,
(01.16 S, 36.43 E), Kenya

13.XI.1931 (larvae)

1.XII.1931 (nymphs)

E. A. Lewis (28-30)

Nos. 3722-3732 were sent by Mr. L. H. Dunn, Gorgas Memorial Laboratory, P.O. Box 5025, Ancon, Canal Zone, Panama, R. deP. on 6 Jan. 1932 to Dr. L. E. Robinson of Cooper Technical Bureau, as a gift. All the specimens except 3731 were accurately determined by Dunn as confirmed by Robinson who gave the specimens to me for our collection in Cambridge on 6.IV.1932. Robinson thinks No. 3731, a nymph, may be that of Amb. longirostre.

G.H.F.N. 7.IV.1932:-

ORIGINAL DETERMINATION

CURRENT STATUS

N	3722	N	3722
		RML	112716
	<u>Amblyomma coelebs</u>		4 ♂, 2 ♀ <u>Amblyomma coelebs</u>
	<u>Tapirella bairdi</u> (tapir)		<u>Tapirus bairdi</u>
	Panama		Panama
	1931 or before, rec'd by us 6.IV.1932		1931 or before, rec'd by us 6.IV.1932
	L. H. Dunn (2)		L. H. Dunn (2)
	L.H.D. det.		
N	3723	N	3723
		RML	112717
	<u>Amblyomma calcaratum</u>		3 ♂, 1 ♀ <u>Amblyomma varium</u>
	<u>Choloepus hoffmanni</u> (sloth)		<u>Choloepus hoffmanni</u>
	Panama		Panama
	1931 or before, rec'd by us 6.IV.1932		1931 or before, rec'd by us 6.IV.1932
	L. H. Dunn (3)		L. H. Dunn (3)
	L.H.D. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3724

Amblyomma oblongoguttatumTapirella bairdi (tapir)

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (4)

L.H.D. det.

N 3724

RML 22320

4 ♂, 4 ♀ Amblyomma oblongoguttatumTapirus bairdi

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (4)

1 ♀ A. oblongoguttatum and
1 ♂ A. cajennense from this Nuttall
collection are now in the RML
collection.

N 3725

Amblyomma geayiBradypus griseus griseus (sloth)

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (5)

L.H.D. det.

N 3725

RML 112718

3 ♂ Amblyomma geayiBradypus infuscatus griseus

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (5)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3726

Amblyomma nodosumTamandua tetradactyla chiriquensis
(anteater)

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (6)

L.H.D. det.

N 3726

RML 112719

2 ♂, 1 ♀ Amblyomma nodosumTamandua tetradactyla chiriquensis

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (6)

N 3727

Amblyomma humerale

Tortoise

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (7)

L.H.D. det.

N 3727

RML 112720

2 ♂ Amblyomma sabanerae

Tortoise

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (7)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3728

Amblyomma concolorDasypus novemcinctus fenestratus
(armadillo)

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (8)

L.H.D. det.

N 3728

RML 112721

3 ♂, 3 ♀ Amblyomma auriculariumDasypus novemcinctus fenestratus

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (8)

N 3729

Amblyomma concolorDidelphis marsupialis etensis
(opossum)

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (9)

L.H.D. det.

N 3729

RML 112722

2 ♂, 2 ♀ Amblyomma auriculariumDidelphis marsupialis cauae

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (9)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3730

Amblyomma pacaeCuniculus paca virgatus
(paca)

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (10)

L.H.D. det.

N 3730

RML 112723

1 ♂, 1 ♀ Amblyomma pacaeAgouti paca virgatus

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (10)

N 3731

Amblyomma sp. NArtibeus jamaicensis jamaicensis
(bat)

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (11)

L.H.D. det.

N 3731

RML 112724

1 N Amblyomma sp.Artibeus jamaicensis jamaicensis

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (11)

Not Amb. longirostre N though similar,
scutum broader & shorter, much less
pitted in the lateral fields.
Posterior dorsal margin different.
G.H.F.N. 18.IV.1932.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3732

Ornithodoros venezuelensis

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (12)

L.H.D. det.

N 3732

RML 112725

10 ♂, 3 ♀, 2 N, 123 L Ornithodoros rudis

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (12)

N 3733

Rhipicephalus sanguineus ♀

Hare (ear)

Sangole, Kenya

12.II.1931

E. A. Lewis (13)

C. W. det.

N 3733

RML 112726

1 ♀ Rhipicephalus pravus

Hare (ear)

Songole (01.30 S, 40.36 E), Kenya

12.II.1931

E. A. Lewis (13)

N 3734

Rhipicephalus appendiculatus
(small var.)

Hare

Naivasha

27.XI.1928

E. A. Lewis (13B)

C. W. det.

N 3734

RML 112727

11 ♂, 10 ♀ Rhipicephalus pravus

Hare

Naivasha (00.43 S, 36.26 E), Kenya

27.XI.1928

E. A. Lewis (13B)

ORIGINAL DETERMINATION

- N 3735
- Haemaphysalis leachi (small)
- Hare (ear)
- Sangole, Kenya
- 12.II.1931
- E. A. Lewis (15)
- C. W. det.
-
- N 3736, a
- (3736) Rhipicephalus appendiculatus
- (a) Rhipicephalus evertsi ♀
- Machakos, Kenya
- 2.XII.1928
- E. A. Lewis (16)
- C. W. det.
-
- N 3737
- Rhipicephalus kochi
- Bushbuck
- Karati Forest, Kenya
- 30.VI.1931
- E. A. Lewis (17)
- E.A.L. & C.W. det.

CURRENT STATUS

- N 3735
- RML 112728
- 2 ♂, 1 ♀ Haemaphysalis leachi
- Hare (ear)
- Songole (01.30 S, 40.36 E), Kenya
- 12.II.1931
- E. A. Lewis (15)
-
- N 3736, a
- RML 112729
- (3736) 55 ♂, 14 ♀, 1 N Rhipicephalus
pravus
- (a) 1 ♀ Rhipicephalus evertsi
- Machakos (01.31 S, 37.16 E), Kenya
- 2.XII.1928
- E. A. Lewis (16)
-
- N 3737
- RML 112730
- 5 ♂, 8 ♀ Rhipicephalus hurti
- Tragelaphus scriptus
- Karati Forest (00.43 S, 36.29 E), Kenya
- 30.VI.1931
- E. A. Lewis (17)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3738

Haemaphysalis aciculifer

Bushbuck

Karati Forest, Kenya

1.VII.1931

E. A. Lewis (18)

N 3738

RML 69895

7 ♂, 19 ♀ Haemaphysalis aciculiferTragelaphus scriptusKarati Forest (00.43 S, 36.29 E),
Kenya

1.VII.1931

E. A. Lewis (18)

N 3739

Rhipicephalus simus

Wart hog

Karati Forest, Kenya

16.VI.1931

E. A. Lewis (19)

E.A.L. & C.W. det.

N 3739

RML 112731

26 ♂, 13 ♀ Rhipicephalus simusPhacochoerus aethiopicusKarati Forest (00.43 S, 36.29 E),
Kenya

16.VI.1931

E. A. Lewis (19)

N 3740

Rhipicephalus kochi

Wart hog

Karati Forest, Kenya

16.VI.1931

E. A. Lewis (20)

C. W. det.

N 3740

RML 112732

26 ♂, 12 ♀ Rhipicephalus jeanneliPhacochoerus aethiopicusKarati Forest (00.43 S, 36.29 E),
Kenya

16.VI.1931

E. A. Lewis (20)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3741	N	3741
	<u>Rhipicephalus oculatus</u>	RML	26114
	<u>Lepus zuluensis</u>		10 ♂, 2 N <u>Rhipicephalus oculatus</u>
	Pretoria, Morning Market		<u>Lepus crawshayi zuluensis</u>
	26.VII.1928		Pretoria (26.45 S, 28.10 E), Republic of South Africa
	R. A. Cooley (32)		26.VII.1928
	C. W. det.		R. A. Cooley (32)
N	3742	N	3742
	<u>Haemaphysalis leachi</u> larvae	RML	94464
	Dog		8 L <u>Haemaphysalis leachi</u> group
	Acorn Hoek, Orinoco		Dog
	1.VIII.1928		Acornhoek (24.36 S, 31.04 E), Republic of South Africa
	R. A. Cooley (46)		1.VIII.1928
	C. W. det.		R. A. Cooley (46)
N	3743	N	3743
	<u>Rhipicephalus appendiculatus</u>	RML	112733
	Goats		24 ♂, 8 ♀, 2 N <u>Rhipicephalus</u> <u>appendiculatus</u>
	Klasserie Farm Scotia		Goats
	30.VII.1928		Klaserie (24.33 S, 31.02 E), Republic of South Africa
	R. A. Cooley (53)		30.VII.1928
	C. W. det.		R. A. Cooley (53)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3744	N	3744
		RML	26111
	<u>Rhipicephalus oculatus</u> ♂, ♀, 2 N		2 ♂, 2 ♀, 1 N <u>Rhipicephalus oculatus</u>
	<u>Lepus ochropus</u>		<u>Lepus capensis ochropus</u>
	Glen, O.F.S.		Glen (28.58 S, 26.20 E), Orange Free State, Republic of South Africa
	28.VIII.1928		28.VIII.1928
	R. A. Cooley (100)		R. A. Cooley (100)
	C. W. det.		
N	3745	N	3745
		RML	26141
	<u>Rhipicephalus oculatus</u>		2 ♂, 2 ♀ <u>Rhipicephalus oculatus</u>
	<u>Lepus capensis</u>		<u>Lepus capensis</u>
	Grootfontein, Middleburg		Grootfontein, Middleburg, Republic of South Africa (locality not verified; 21 possible localities)
	31.VIII.1928		31.VIII.1928
	R. A. Cooley (119)		R. A. Cooley (119)
	C. W. det.		
N	3746	N	3746
		RML	112734
	<u>Rhipicephalus appendiculatus</u>		17 ♂, 25 ♀ <u>Rhipicephalus appendiculatus</u>
	Exper. rabbit #3, Vet Lab. Stock		Exper. rabbit #3, Vet Lab. Stock
			Veterinary Research Laboratory, Onderstepoort (25.39 S, 28.11 E), Republic of South Africa
	R. A. Cooley (145)		R. A. Cooley (145)
	C. W. det.		C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3747	N	3747
		RML	26128
	<u>Rhipicephalus oculatus</u> var. <u>pravus</u>		7 ♂, 3 ♀ <u>Rhipicephalus punctatus</u>
	<u>Lepus zuluensis</u>		<u>Lepus crawshayi zuluensis</u>
	Pienaars River		Pienaars River (25.06 S, 27.34 E), Republic of South Africa
	1.X.1928		1.X.1928
	R. A. Cooley (195)		R. A. Cooley (195)
	C. W. det.		
N	3748	N	3748
		RML	112735
	<u>Rhipicephalus evertsi</u> ♂, ♀		8 ♂, 4 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Middleburg		Middleburg, Republic of South Africa (locality not verified)
	20.IX.1928		20.IX.1928
	R. A. Cooley (202)		R. A. Cooley (202)
	C. W. det.		The vial label reads Middleburg, Kenya, E. A. Lewis coll. but these data are incorrect.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3749

N 3749

RML 26124

Rhipicephalus oculatus4 ♂, 2 ♀, 1 N Rhipicephalus oculatusLepus zuluensisLepus crawshayi zuluensis

Pienaars River, Silverton Farm

Pienaars River (25.06 S, 27.34 E),
Silverton Farm, Republic of
South Africa

1.X.1928

1.X.1928

R. A. Cooley (211)

R. A. Cooley (211)

C. W. det.

N 3750

N 3750

RML 26150

Rhipicephalus oculatus pravus form16 ♂, 1 ♀, 12 N Rhipicephalus
punctatusLepus zuluensisLepus crawshayi zuluensis

Acorn Hoek, Fleur de Lys

Acornhoek (24.36 S, 31.04 E),
Republic of South Africa

30.VII.1932

30.VII.1928

R. A. Cooley (219)

R. A. Cooley (219)

C. Warburton det.

The date 1932 is incorrect.
Dr. Cooley's only trip to
South Africa was in 1928.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3751	N	3751
	<u>Haemaphysalis silacea</u>	RML	25839
	Cattle		1 ♂, 1 ♀ <u>Haemaphysalis silacea</u>
	Bathurst		Cattle
			Either Bathurst (25.32 S, 23.27 E) or (33.31 S, 26.50 E), Republic of South Africa
	12.IX.1928		12.IX.1928
	R. A. Cooley (220)		R. A. Cooley (220)
	C. Warburton det.		
N	3752	N	3752
	<u>Rhipicephalus evertsi</u>	RML	66619
	Sheep		30 ♂, 4 ♀ <u>Rhipicephalus evertsi</u>
	Klasserie, Farm Scotia		Sheep
			Klaserie (24.33 S, 31.02 E), Republic of South Africa
	31.VII.1928		31.VII.1928
	R. A. Cooley (236)		R. A. Cooley (236)
	C. Warburton det.		
N	3753	N	3753 MISSING
	<u>Boophilus decoloratus</u>		
	Sable antelope		
	Acorn Hoek, Spring Valley		
	4.VIII.1928		
	R. A. Cooley (243)		
	C. Warburton det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3754	N	3754
	<u>Argas persicus</u>	RML	112736
	In pepper trees		11 ♂, 12 ♀, 11 N <u>Argas walkerae</u>
	Queenstown		In pepper trees
	17.IX.1928		Queenstown (31.54 S, 26.53 E), Republic of South Africa
	R. A. Cooley (269)		17.IX.1928
	C. Warburton det.		R. A. Cooley (269)
N	3755	N	3755 MISSING
	<u>Ornithodoros megnini</u>		
	Cattle		
	Queenstown		
	18.IX.1928		
	Lounsbury		
	R. A. Cooley no. 271		
	C. Warburton det.		
N	3756	N	3756 MISSING
	<u>Amblyomma hebraeum</u>		
	Cow		
	Pretoria, Nefdt Siding		
	27.IX.1928		
	Lounsbury		
	R. A. Cooley no. 277		
	C. Warburton det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3757	N	3757
	<u>Ornithodoros megnini</u>	RML	112737
	Horses		38 N <u>Otobius megnini</u>
	Petersburg O.F.S.		Horses
	27.IX.1928		Perhaps Petrusburg (29.07 S, 25.25 E), Orange Free State, Republic of South Africa
	C. S. Biggs		27.IX.1928
	R. A. Cooley no. 304		C. P. Lounsbury
	C. Warburton det.		Catalogue and vial label disagree on collector of this material.
N	3758	N	3758
	<u>Haemaphysalis leachi</u>	RML	25830
	Dog		7 ♂, 5 ♀ <u>Haemaphysalis</u> sp.
	Klasserie		Dog
	27.VII.1928		Klaserie (24.33 S, 31.02 E), Republic of South Africa
	R. A. Cooley (307)		27.VII.1928
	C. Warburton det.		R. A. Cooley (307)
N	3759	N	3759
	<u>Rhipicephalus appendiculatus</u>	RML	112738
	Dog		13 ♂, 19 ♀ <u>Rhipicephalus appendiculatus</u>
	Sand River		Dog
	R. A. Cooley (71)		Sand River (33.11 S, 22.08 E), Republic of South Africa
	C. Warburton det.		R. A. Cooley (71)
			The date of this collection is 28.VII.1928 - see Cooley (1934:28)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3760

Rhipicephalus evertsi

Cattle

Queenstown

R. A. Cooley (no number)

C. Warburton det.

N 3760

RML 112739

10 ♂, 7 ♀ Rhipicephalus evertsi

Cattle

Queenstown (31.54 S, 26.53 E),
Republic of South Africa

R. A. Cooley (no number)

N 3761

Rhipicephalus pulchellus ♂'s, ♀'s

Somaliland

Gift 1930

Dr. Bachelli

Prof. Franchini gift

C. W. det.

N 3761

RML 66681

9 ♂, 32 ♀ Rhipicephalus pulchellus

Somali Democratic Republic

Gift 1930

Dr. Bachelli

N 3762

Hyalomma aegyptium var.

Dog & Sheep

Agerdat, Eritraea

Gift 1931

Dr. Ganova

Prof. Franchini gift

C. W. det.

N 3762

RML 112740

90 ♂, 9 ♀ Hyalomma rufipes2 ♂ Hyalomma truncatum2 ♂ Hyalomma dromedarii

Dog & Sheep

Agordat (15.32 N, 37.52 E), Ethiopia

Gift 1931

Dr. Ganova

ORIGINAL DETERMINATIONCURRENT STATUS

N 3763

Haemaphysalis cinnabarina
var. punctata

Goats

Cyprus

Gift 1929

Dr. P. A. Buxton gift

C. W. det.

N 3763

RML 112741

2 ♂, 2 ♀ Haemaphysalis sulcata

Goats

Cyprus

Gift 1929

Dr. P. A. Buxton gift

N 3764

Rhipicephalus simus N'sFrom nest of Arvicanthis

Kenya Colony

1930

J. I. Roberts (1729)

C. W. det.

N 3764

RML 112742

2 ♂, 58 N Rhipicephalus simusFrom nest of Arvicanthis sp.

Kenya

1930

J. I. Roberts (1729)

N 3765

Haemaphysalis leachiFrom nest of Arvicanthis

Kenya Colony

J. I. Roberts (1736)

C. W. det.

N 3765

RML 112743

12 ♂, 18 ♀, 2 N Haemaphysalis leachiFrom nest of Arvicanthis sp.

Kenya

Probably 1930

J. I. Roberts (1736)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3766

N 3766

RML 112744

Rhipicephalus sanguineus 2 N2 N Rhipicephalus sanguineus

Attacking man in large numbers

Homo sapiens

Region of Akbou (Kabilie), Algeria

Akbou (36.28 N, 04.32 E), Algeria

Sent to me 2.VIII.1932

Sent to me 2.VIII.1932

Sent by M. Marc André

Sent by M. Marc André

C. W. det. 5.VIII.1932

M. André (Museum National d'Hist. Nat., Lab. de Zool., 61 rue Buffon, Paris) wrote 2.VIII.1932: "Cette espèce s'est développée dans cette région en si grande abondance dans certains jardins, qu'on ne peut y circuler sans en être couvert."
G.H.F.N.

N 3767

N 3767 MISSING

Ixodes ricinus larvae

Attacking man (harvesters). One brought to England on Boycott's arm.

Glengariff, S. W. Ireland

VIII.1929

Prof. A. E. Boycott, F.R.S.
London Sent 11.XII for det.

G.H.F.N. det 20.XII.1929

(Mounted on slide) balsam.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3768

Ornithodoros papillipes
TYPE material

Caucasus

Before 1895. Rec'd from
E. P.....Gift of Prof. E. Pavlovsky
Leningrad. His slides No's 51 & 52

A. Birula det. No. 718

(Dorsum, venter, hypostome
chelicerae, mounted on 2 slides).

N 3769

Ornithodoros talaje (1 specimen)

From Mrs. Neuman's house

Ransomville, N.Y., U.S.A.

Gift of Prof. R. Matheson of
Cornell, Univ.

C. W. & G.H.F.N. det.

See Matheson R. (1931)
Parasitology vol. 23 p. 270 re this.

N 3768

RML 112745

1 ♂ Ornithodoros tholozani
SYNTYPE of O. papillipes

Caucasus Mountains, U.S.S.R.

Before 1895. Rec'd from
E. P.....Gift of Prof. E. Pavlovsky
Leningrad. His slides No's 51 & 52Birula (1895: 354), original
descriptionThe second slide of this series
is missing.

N 3769

RML 112746

1 ♀ Ornithodoros kelleyi

From Mrs. Neuman's house

Ransomville (43.14 N, 78.55 W),
New York, U.S.A.

9.I.1928

Mrs. R. A. Neuman

Cited: Matheson (1931: 270).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3770
Amblyomma nuttalli larvae
 Raised from ♀ off tortoise
 Onderstepoort, Pretoria, S. Africa
 11.X.1930
 Gift of H. S. Purchase
 (Mounted in balsam on slide).

N 3771
Ixodes pilosus
 Bushbuck (head & shoulders)
 Uplands, Kenya Colony
 5.V.1931
 Dr. E. A. Lewis
 C. W. det.

N 3772
Amblyomma gemma
 Cattle
 Marsabit, N.F.D., Kenya Colony
 10.X.1930
 V. O. Mulligan
 E.A.W. & C.W. det.

N 3770 MISSING

N 3771 MISSING

N 3772
 RML 112747
 114 ♂, 16 ♀ Amblyomma gemma
 2 ♂ Rhipicephalus pulchellus
 Cattle
 Marsabit (02.20 N, 37.59 E), Kenya
 10.X.1930
 V. O. Mulligan

ORIGINAL DETERMINATIONCURRENT STATUS

N	3773	N	3773
	<u>Hyalomma aegyptium</u>	RML	95074
	Cattle (abdomen)		11 ♂, 2 ♀ <u>Hyalomma albiparmatum</u>
	Kedong Valley, Kenya Colony		Cattle
	15.I.1931		Nkidong Valley (01.10 S, 36.30 E), Kenya
	E. A. Lewis		15.I.1931
	C. W. det.		E. A. Lewis
	Schulze's <u>impressum albiparmatum</u> .		Hoogstraal (1956a: 517) illustrated 1 ♂, 1 ♀ of this species.
N	3774	N	3774 MISSING
	<u>Rhipicephalus evertsi</u>		
	Sheep (under tail)		
	Ngobit Laikipia, Kenya Colony		
	14.VI.1931		
	E. A. Lewis		
	C. W. det.		
N	3775	N	3775
	<u>Rhipicephalus simus</u>	RML	112748
	Sheep		39 ♂, 28 ♀ <u>Rhipicephalus simus</u>
	Marsabit, N.F.D., Kenya Colony		1 ♂ <u>Rhipicephalus pulchellus</u>
	1.II.1931		Sheep
	E. A. Lewis		Marsabit (02.20 N, 37.59 E), Kenya
	C. W. det.		1.II.1931
			E. A. Lewis

ORIGINAL DETERMINATIONCURRENT STATUS

N 3776

Rhipicephalus pulchellus

Cattle

Ngobit, Laikipia, Kenya

14.I.1931

E. A. Lewis

E.A.L. & C.W. det.

N 3776

RML 112749

9 ♂, 7 ♀ Rhipicephalus pulchellus

Cattle

Ongobit (00.03 S, 36.47 E),
Laikipia District, Kenya

14.I.1931

E. A. Lewis

N 3777

Rhipicephalus maculatus

Rhinoceros

Mount Kenya, Kenya

3.VI.1930

E. A. Lewis

E.A.L. & C.W. det.

N 3777

RML 112750

6 ♂ Rhipicephalus maculatusDiceros bicornisMount Kenya (00.10 S, 37.20 E),
Kenya

3.VI.1930

E. A. Lewis

N 3778

Margaropus winthemi

Cattle "imported" (whence?)

Mombasa, Kenya

29.X.1930

E. A. Lewis

E.A.L. & C.W. det.

N 3778

RML 112751

2 ♀ Margaropus winthemi

Cattle "imported" (whence?)

Mombasa (04.03 S, 39.40 E), Kenya

29.X.1930

E. A. Lewis

ORIGINAL DETERMINATIONCURRENT STATUS

N	3779	N	3779 MISSING
	<u>Ornithodoros megnini</u>		
	Cattle (ears) imported		
	Nairobi (quarantine) Kenya		
	1.IV.1931		
	E. A. Lewis		
	E.A.L. & C.W. det.		
N	3780	N	3780
		RML	112752
	<u>Rhipicephalus pulchellus</u> larvae		1 L <u>Rhipicephalus pulchellus</u>
	Reared from ♀		
	Zebra (abdomen)		<u>Equus burchelli</u>
	Athi Plains, Kenya		Athi Plains (01.24 S, 36.54 E), Kenya
	4.X.1930		4.X.1930
	E. A. Lewis		E. A. Lewis
	E.A.L. det.		
N	3781	N	3781
		RML	69894
	<u>Haemaphysalis aciculifer</u> 1 N		9 N <u>Haemaphysalis aciculifer</u>
	raised from ♀		
	Bushbuck (head)		<u>Tragelaphus scriptus</u>
	Karati Forest, Kenya		Karati Forest (00.43 S, 36.29 E), Kenya
	2.II.1931		2.II.1931
	E. A. Lewis		E. A. Lewis
	E.A.L. det.		Cited: Santos Dias (1958: 535).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3782	N	3782
		RML	113176
	<u>Rhipicephalus simus</u> (chiefly)		276 ♂, 160 ♀ <u>Rhipicephalus simus</u> 1 ♂ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Kijabe, Kenya		Kijabe (00.56 S, 36.34 E), Kenya
	15.I.1931		15.I.1931
	E. A. Lewis		E. A. Lewis
	C. W. det.		
N	3783	N	3783
		RML	115896
	<u>Hyalomma aegyptium</u>		1 ♂, 16 ♀ <u>Hyalomma anatolicum</u> <u>excavatum</u>
	Host unknown		Host unknown
	Arabia		Saudi Arabia
	Reported back by us 10.VI.1930		Reported back by us 10.VI.1930
	Dr. Ganova		Dr. Ganova
	Sent by Prof. Franchini		Sent by Prof. Franchini
	C. W. det.		
N	3784	N	3784
		RML	113177
	<u>Ornithodoros</u> sp. larvae		+500 L <u>Ornithodoros</u> sp.
	Domestic hen		Hen, domestic
	Massive infestation on piece of skin		
	Palestine		Israel
	Rec'd by us 8.VII.1927		Rec'd by us 8.VII.1927
	G. E. Bodkin		G. E. Bodkin
	From I.B.E. No. 1562		Specimens attached to skin.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3785

N 3785

RML 113178

Rhipicephalus bursa11 ♂, 3 ♀ Rhipicephalus evertsi
2 ♂, 1 ♀ Rhipicephalus sanguineus

Sheep (& dog, ticks mixed by collector)

Sheep (& dog, ticks mixed by collector)

Eritrea, Italian Somaliland

Eritrea (15.20 N, 39.00 E), Ethiopia

Rec'd by us 25.III.1931

Rec'd by us 25.III.1931

Dr. Ganova

Dr. Ganova

Sent by Prof. Franchini

N 3786

N 3786

RML 105680

Amblyomma gemma ♂'s, ♀'s16 ♂, 6 ♀ Amblyomma gemma
1 ♀ Hyalomma rufipes

Host unknown

Host unknown

Italian Somaliland

Somali Democratic Republic

Rec'd by us I.1932

Rec'd. by us I.1932

Dr. Bachelli

Dr. Bachelli

Sent by Prof. Franchini

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3787

Rhipicephalus pulchellus
? 2 ♂, many ♀

Host unknown

Italian Somaliland

Rec'd by us I.1932

Dr. Bachelli

Sent us by Prof. Franchini

C. W. det.

C. Warburton notes ♂ with pattern
obsolete, ♀ mixed.

N 3788

Rhipicephalus pulchellus

Host unknown

Madisces, Italian Somaliland

2.III.1932

Dr. Bachelli

Sent by Prof. Franchini

C. Warburton notes "both varieties"
(I ask is this bad & good
preservation?) G.H.F.N. 15.VIII.1932

N 3787

RML 113179

2 ♂ Rhipicephalus pulchellus
68 ♂, 77 ♀ Rhipicephalus humeralis

Host unknown

Somali Democratic Republic

Rec'd by us I.1932

Dr. Bachelli

Some of the ♀'s listed above may be
R. pulchellus

N 3788

RML 105681

42 ♂ Rhipicephalus pulchellus
108 ♂, 122 ♀ Rhipicephalus humeralis
1 ♂ Amblyomma eburneum
1 ♀ Hyalomma impeltatum

Host unknown

Madisces, Somali Democratic Republic
(locality not verified)

2.III.1932

Dr. Bachelli

Some of the ♀'s listed under R.
humeralis are R. pulchellus but
have not been separated.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3789

Ixodes kingi 1 ♂, 1 ♀

Dog

(Saskatoon?), Saskatchewan, Canada

18.VI.1930

Dr. L. G. Saunders

F.C.B. det.

C. Warburton notes: 12.VII.30 in letter to Saunders, like what we conceive to be Ix. pratti, but Banks muddled the species: Bishopp said Bank's ♂ pratti = ricinus & Banks's ♀ pratti = Ix. kingi. (Refer to Bishopp).

N.B. sent to Dr. F. C. Bishopp, U.S. Dept. of Agric., Bureau of Entomol., Washington, D.C. 20.I. who replied 6.II.1933 & returned specimens to me saying species somewhat variable, our 3789 fairly typical. He notes that lateral carinae of ♂s scutum extend further back than in type ♂ basis capituli with postero lateral angles not produced quite as strongly as in type. G.H.F.N. 17.II.1933.

N 3790

Ornithodoros talaje

Colombia, S. America

Rec'd. 3.X.1927

Dr. Pamfano

Sent us for identif. by
Dr. P. A. Buxton, rest returned

C. W. det.

N 3789

RML 113180

1 ♂, 1 ♀ Ixodes kingi

Dog

? Saskatoon (52.07 N, 106.38 W)
Saskatchewan, Canada

18.VI.1930

Dr. L. G. Saunders

N 3790

RML 113181

4 ♀ Ornithodoros talaje

Colombia

Rec'd. 3.X.1927

Dr. Pamfano

ORIGINAL DETERMINATIONCURRENT STATUS

N 3791

Ixodes acutitarsus 1 ♀

Found on ground

Lachen, India

21.III.1931

Ex tube No. 6647
 Arthropod Section
 Calcutta School of Trop. Med.
 Sent by C. Strickland

C. W. det.

2791, 2792 in one bottle. Rare.

N 3791

RML 97788

1 ♀ Ixodes acutitarsus

Found on ground

Lachen (27.44 N, 88.33 E), India

21.III.1931

Ex tube No. 6647
 Arthropod Section
 Calcutta School of Trop. Med.
 Sent by C. Strickland

N 3792

Ixodes acutitarsus 1 ♂

Lachen, India

21.X.1931

Ex tube No. 6648
 Arthropod Section
 Calcutta School of Trop. Med.
 Sent by C. Strickland

C. W. det.

3791, 3792 in one bottle. Rare.

N 3792

RML 97788

1 ♂ Ixodes acutitarsus

Lachen (27.44 N, 88.33 E), India

21.X.1931

Ex tube No. 6648
 Arthropod Section
 Calcutta School of Trop. Med.
 Sent by C. Strickland

ORIGINAL DETERMINATION

N 3793

Dermacentor everestiana
1 ♂, 2 ♀ gorged

Sheep

Dochen, Tibet (14,700 feet alt.)

19.VIII.1931

Ex tube No. 6573
Arthropod Section
Calcutta School of Trop. Med.
Sent by C. Strickland

C. W. det.

3793 See Warburton letter of 18.XI.1931
to Strickland: C. W. states type of
species 1 ♂ is in Brit. Museum.
Stanley Hirst gave but brief descr.
& named it, but died before giving
full description. (Report Book p. 123).

N 3794

Ixodes tenuirostris 1 ♂, 1 ♀

Found in nest of field mouse

Oxfordshire

3.III.1927

C. S. Elton (Oxford)

C. W. det.

CURRENT STATUS

N 3793

RML 113182

1 ♂, 2 ♀ Dermacentor everestianus

Sheep

Tocheng (28.09 N, 89.18 E),
Tibetan Autonomous Republic,
Peoples Republic of China (4481 m)

19.VIII.1931

Ex tube No. 6573
Arthropod Section
Calcutta School of Trop. Med.
Sent by C. Strickland

Cited: Arthur (1960b: 142).

N 3794

RML 113183

1 ♂, 1 ♀ Ixodes trianguliceps

Found in nest of field mouse

Oxfordshire (51.45 N, 01.10 W)
England

3.III.1927

C. S. Elton (Oxford)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3795

Ornithodoros peringueyi
(6 specimens)From nests of Petrochalidon spilodera,
S. African Cliff Swallow

Onderstepoort, Pretoria

VI.1927

G. A. H. Bedford (donor)

G.A.H.B. det.

3795 See description of species;
Bedford & Hewitt (XII.1925) S.
Afric. J. of Nat. Hist., Pretoria
5, 259, pl. XIX, figs. 1-3; types
from infested native church,
Ngamakwe, Cape Province 10.XII.1923.

N 3795

RML 113184

2 ♂, 3 ♀, 1 N Ornithodoros peringueyiHirundo spilodera, nests ofOnderstepoort (25.39 S, 28.11 E),
Republic of South Africa

VI.1937

G. A. H. Bedford (donor)

See also N3865

N 3796, a

(3796) Rhipicephalus sanguineus
♂'s, ♀'s(a) Boophilus annulatus ♀'s gorged

Dog

Near Georgetown, Brit. Guiana

1930

W. Beveridge

Sent by Dr. P. A. Buxton & not
wanted back. III.1931

C. W. det.

N 3796, a

RML 113185

(3796) 5 ♂, 16 ♀, 5 N Rhipicephalus
sanguineus(a) 5 ♀ Boophilus microplus

Dog

Near Georgetown (06.48 N, 58.10 W)
Guyana

1930

W. Beveridge

ORIGINAL DETERMINATIONCURRENT STATUS

N 3797

Ornithodoros coriaceus 1 ♀

California

Rec'd. 4.VI.1931 alive

Miss Florence M. Frost's gift to me,
brought by her who has worked on its
biol.

G.H.F.N. & F.M.F. det.

(mounted in cell on slide).

N 3798

Ornithodoros moubata
N's unfed, 1st stage

Raised in sender's laboratory near
Manchester, England

Rec'd ca. 13.I.1930

Mr. Chas. D. Radford

G.H.F.N. & others det.

N 3797 MISSING

N 3798

RML 113186

36 N Ornithodoros moubata

Raised in sender's laboratory near
Manchester (53.30 N, 02.13 W),
England

Rec'd ca. 13.I.1930

Mr. Chas D. Radford

ORIGINAL DETERMINATIONCURRENT STATUS

N 3799

Rhipicephalus appendiculatus
all stages

Cattle

Stock Farm, Mbarara Ankole &
Mbarara Quarantine

Received 2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (9)

C. W. det.

N 3799

RML 113187

84 ♂, 36 ♀, 54 N Rhipicephalus
appendiculatus

Cattle

Mbarara (00.37 S, 30.39 E), Uganda

Received 2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (9)

N 3800

Amblyomma variegatum

Cattle

Mbarara Quarantine

Received 2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (9)

C. W. det.

N 3800

RML 113188

34 ♂ Amblyomma variegatum

Cattle

Mbarara (00.37 S, 30.39 E), Uganda

Received 2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (9)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3801

Rhipicephalus appendiculatus

Sheep

Kichwamba, Lake George

Received 2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (25,44)

C. W. det.

N 3801

RML 113189

36 ♂, 16 ♀ 2 N Rhipicephalus
appendiculatus

Sheep

Kichwamba, Lake George (00.00,
30.12 E), Uganda

Received 2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (25,44)

N 3802

Rhipicephalus appendiculatus
small & N's

Goat

Kichwamba, Lake George

Received 2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (31)

C. W. det.

N 3802

RML 113190

1 ♂, 2 N Rhipicephalus appendiculatus

Goat

Kichwamba, Lake George (00.00,
30.12 E), Uganda

Received 2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (31)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3803

Rhipicephalus appendiculatus

Lamb

Kichwamba, Lake George

2,3,49, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (46)

C. W. det.

N 3803

RML 113191

7 ♂, 2 ♀ Rhipicephalus appendiculatus

Sheep

Kichwamba, Lake George (00.00,
30.12 E), Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (46)

N 3804

Rhipicephalus appendiculatus

Goat

Kabak, Kigesi

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (52)

C. W. det.

N 3804

RML 113192

6 ♂, 7 ♀, 61 N, 2 L Rhipicephalus
appendiculatus

Goat

Kabak, District of Kigezi (01.00 S,
29.45 E), Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (52)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3805	N	3805
	<u>Rhipicephalus appendiculatus</u>	RML	113193
	Sheep		7 ♂, 13 ♀, 12 N <u>Rhipicephalus appendiculatus</u>
	Kabak, Kigesī		Sheep
	2,3,4,9, & 10.II.1932		Kabak, District of Kigezi (01.00 S, 29.45 E), Uganda
	Received from R. W. Mettam, Entebbe, Uganda (53)		2,3,4,9, & 10.II.1932
	C. W. det.		Received from R. W. Mettam, Entebbe, Uganda (53)
N	3806	N	3806
	<u>Rhipicephalus appendiculatus</u>	RML	113194
	Cattle		111 ♂, 77 ♀, 137 N <u>Rhipicephalus appendiculatus</u>
	Kabak, Kigesī		Cattle
	2,3,4,9, & 10.II.1932		Kabak, District of Kigezi (01.00 S, 39.45 E), Uganda
	Received from R. W. Mettam, Entebbe, Uganda (54,56)		2,3,4,9, & 10.II.1932
	C. W. det.		Received from R. W. Mettam, Entebbe, Uganda (54,56)
			This collection also contained 2 ♂, 1 ♀ <u>Haematopinus quadripertusus</u> (Insecta: Anoplura).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3807

N 3807

RML 113195

Rhipicephalus appendiculatus
good varia's46 ♂, 72 ♀, 109 N Rhipicephalus
appendiculatus

Cattle

Cattle

Kabak, Kigesi

Kabak, District of Kigezi (01.00 S,
29.45 E), Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (55)Received from R. W. Mettam,
Entebbe, Uganda (55)

C. W. det.

N 3808

N 3808

RML 113296

Rhipicephalus appendiculatus75 ♂, 60 ♀ Rhipicephalus
appendiculatus

Cattle

Cattle

Lake Bunoyoni, Kigesi

Lake Bunoyoni, District of Kigezi
(01.00 S, 29.45 E), Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (63)Received from R. W. Mettam,
Entebbe, Uganda (63)

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3809

N 3809

RML 113197

Rhipicephalus appendiculatus104 ♂, 54 ♀, 5 N Rhipicephalus
appendiculatus

Cattle

Cattle

Kabale in Toro

Kabale (00.28 N, 30.12 E),
District of Kigizi, Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (66)Received from R. W. Mettam,
Entebbe, Uganda (66)

C. W. det.

N 3810

N 3810

RML 113198

Rhipicephalus appendiculatus20 ♂, 18 ♀ Rhipicephalus
appendiculatus

Cattle

Cattle

Old Entebbe

Old Entebbe (00.03 N, 32.26 E),
Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (70,71)Received from R. W. Mettam,
Entebbe, Uganda (70,71)

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3811

Amblyomma variegatum

Cattle

Old Entebbe

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (70,71)

C. W. det.

N 3812

Rhipicephalus appendiculatus
(feeble)

Cattle

Buruli

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (98)

C. W. det.

N 3811

RML 113199

9 ♂, 7 ♀, 4 N Amblyomma variegatum

Cattle

Old Entebbe (00.03 N, 32.26 E),
Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (70,71)

N 3812

RML 113200

5 ♂, 9 ♀ Rhipicephalus appendiculatus

Cattle

Either District of Buruli (01.20 N,
32.20 E) or (01.35 N, 31.50 E),
Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (98)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3813

N 3813

RML 113201

Rhipicephalus appendiculatus16 ♂, 19 ♀, 1 N Rhipicephalus appendiculatus

Cattle

Cattle

Old Entebbe

Old Entebbe (00.03 N, 32.26 E),
Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (71)Received from R. W. Mettam,
Entebbe, Uganda (71)

C. W. det.

N 3814

N 3814

RML 113202

Rhipicephalus appendiculatus6 ♂ Rhipicephalus appendiculatus

Cattle

Cattle

Buruli

Either District of Buruli (01.20 N,
32.20 E) or (01.35 N, 31.50 E),
Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (99)Received from R. W. Mettam,
Entebbe, Uganda (99)

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3815

Rhipicephalus evertsi

Cattle

Buruli

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (99)

C. W. det.

N 3816

Amblyomma variegatum adults, N's

Cattle

Buruli

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (00,100)

C. W. det.

N 3815

RML 113203

2 ♂ Rhipicephalus evertsi

Cattle

Either District of Buruli (01.20 N,
32.20 E), or (01.35 N, 31.50 E),
Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (99)

Locality on vial label is Entebbe

N 3816

RML 113204

5 ♂, 3 ♀, 5 N Amblyomma variegatum

Cattle

Either District of Buruli (01.20 N,
32.20 E), or (01.35 N, 32.50 E),
Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (99,100)

ORIGINAL DETERMINATION

N 3817

Rhipicephalus evertsi

Cattle

Entebbe

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (117)

C. W. det.

N 3818

Rhipicephalus appendiculatus

Cattle

Entebbe

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (117)

C. W. det.

CURRENT STATUS

N 3817

RML 113205

2 ♂, 1 N Rhipicephalus evertsi

Cattle

Entebbe (00.04 N, 32.28 E), Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (117)

N 3818

RML 113206

16 ♂, 20 ♀, 6 N Rhipicephalus
appendiculatus

Cattle

Entebbe (00.04 N, 32.28 E), Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (117)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3819

Rhipicephalus appendiculatus

Cattle

Sukulu, Tororo

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (118)

C. W. det.

N 3820

Amblyomma variegatum

Cattle

Sukulu, Tororo

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (118)

C. W. det.

N 3819

RML 113207

1 ♂, 5 ♀ Rhipicephalus appendiculatus

Cattle

Sukulu (00.39 N, 34.10 E),
District of Tororo, Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (118)

N 3820

RML 113208

26 ♂, 7 ♀ Amblyomma variegatum

Cattle

Sukulu (00.39 N, 34.10 E),
District of Tororo, Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (118)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3821

N 3821

RML 113209

Amblyomma variegatum N's8 N Amblyomma variegatum

Goat

Goat

Sukulu, Tororo

Sukulu (00.39 N, 34.10 E),
District of Tororo, Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (120)Received from R. W. Mettam,
Entebbe, Uganda (120)

C. W. det.

N 3822

N 3822

RML 113210

Amblyomma variegatum ♂'s, ♀'s50 ♂, 6 ♀ Amblyomma variegatum
2 ♂ Rhipicephalus appendiculatus

Cattle

Cattle

Lira Stock Farm, Lango

Lira Stock Farm, District of Lango
(02.10 N, 33.00 E), Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (124)Received from R. W. Mettam,
Entebbe, Uganda (124)

C. W. det.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3823	N	3823
		RML	113211
	<u>Rhipicephalus appendiculatus</u>		20 ♂, 7 ♀ <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Lira Stock Farm, Lango		Lira Stock Farm, District of Lango (10.10 N, 33.00 E), Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (124,125)		Received from R. W. Mettam, Entebbe, Uganda (124,125)
	C. W. det.		
N	3824	N	3824
		RML	105786, 113212
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		96 ♂, 11 ♀, 7 N <u>Amblyomma variegatum</u> 1 ♂ <u>Rhipicephalus appendiculatus</u>
	Lira Stock Farm, Lango		Lira Stock Farm, District of Lango
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (125)		Received from R. W. Mettam, Entebbe, Uganda (125)
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3825

N 3825

RML 113213

Rhipicephalus appendiculatus1 ♂, 7 ♀ Rhipicephalus appendiculatus

Cattle

Cattle

Masindi, Bunyoro

Masindi (01.41 N, 31.43 E),
District of Bunyoro, Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (126)Received from R. W. Mettam,
Entebbe, Uganda (126)

C. W. det.

N 3826

N 3826

RML 115883

Rhipicephalus appendiculatus5 ♂, 15 ♀ Rhipicephalus appendiculatus

Sheep

Sheep

Masindi, Bunyoro

Masindi (01.41 N, 31.43 E)
District of Bunyoro, Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (127)Received from R. W. Mettam,
Entebbe, Uganda (127)

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3827

N 3827

RML 113214

Amblyomma variegatum12 ♂, 13 ♀, 2 N Amblyomma variegatum

Cattle

Cattle

Masindi, Bunyoro

Masindi (01.41 N, 31.43 E),
District of Bunyoro, Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (126)Received from R. W. Mettam,
Entebbe, Uganda (126)

N 3828

N 3828

RML 113215

Amblyomma variegatum87 ♂, 11 ♀ Amblyomma variegatum

Cattle

Cattle

Jinja, Busoga

Jinja (00.26 N, 33.12 E),
District of Busoga, Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.I.1932

Received from R. W. Mettam,
Enteb-e, Uganda (130)Received from R. W. Mettam,
Entebbe, Uganda (130)

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3829, a

N 3829, a

RML 88410

(3829) Haemaphysalis parmata
♂'s, ♀'s(3829) 1♂, 4 ♀ Haemaphysalis parmata
(a) 1 ♀, 1 N Ixodes cumulatimpunctatus(a) Ixodes rasus 1 ♀, 1 N

Bushbuck

Tragelaphus scriptus

Kyagwe, Uganda

County of Kyagwe (00.25 N, 32.50 E),
District of Buganda, Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (142)Received from R. W. Mettam,
Entebbe, Uganda (142)

C. W. det.

(a) Cited: Arthur & Burrow (1957:
505) who stated that the
collection contained 1 ♀, 10 N.

N 3830

N 3830

RML 113216

Rhipicephalus appendiculatus204 ♂, 81 ♀ Rhipicephalus
appendiculatus

Cattle

Cattle

Mpungwe, Kojja

Mpungwe (00.27 N, 33.31 E),
District of Busoga, Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (83)Received from R. W. Mettam,
Entebbe, Uganda (83)

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3831

Rhipicephalus appendiculatus
♂'s, ♀'s, N's

Calves, Halfbred

Luwafu, Koja

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (85)

C. W. det.

N 3831

RML 113217

7 ♂, 6 ♀, 1 N Rhipicephalus
appendiculatus

Calves, halfbred

Luwafu, Koja, Uganda
(locality not verified)

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (85)

N 3832

Rhipicephalus appendiculatus

Cattle

Mpungwe, Koja

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (90)

C. W. det.

N 3832

RML 113218

169 ♂, 49 ♀, 1 N Rhipicephalus
appendiculatus

Cattle

Mpungwe (00.27 N, 33.31 E),
District of Busoga, Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (90)

ORIGINAL DETERMINATION

CURRENT STATUS

N 3833

Rhipicephalus appendiculatus
♂'s, ♀'s

Cattle

Mpungwe, Koja

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (91)

C. W. det.

N 3834

Rhipicephalus appendiculatus
♂'s, ♀'s, N's

Cattle

Mpungwe, Koja

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (92)

C. W. det.

N 3833

RML 113219

192 ♂, 46 ♀, 2 N Rhipicephalus
appendiculatus

Cattle

Mpungwe (00.27 N, 33.31 E),
District of Busoga, Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (91)

N 3834

RML 113220

144 ♂, 53 ♀ Rhipicephalus
appendiculatus

Cattle

Mpungwe (00.27 N, 33.31 E),
District of Busoga, Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (92)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3835	N	3835
		RML	113221
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s, N's		129 ♂, 59 ♀, 2 N <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Mpungwe, Koja		Mpungwe (00.27 N, 33.31 E), District of Busoga, Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (93,95)		Received from R. W. Mettam, Entebbe, Uganda (93,95)
	C. W. det.		
N	3836	N	3836
		RML	113222
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s, N's		217 ♂, 141 ♀, 2 N <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Luwafu, Koja		Luwafu, Koja (00.10 N, 32.47 E), Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (147,150)		Received from R. W. Mettam, Entebbe, Uganda (147,150)
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3837

Rhipicephalus appendiculatus
♂'s & ♀'s

Cattle

Buruli & Jinja, Busoga, Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (100 ♂'s, ♀'s
130 1 ♀)

N 3838

Rhipicephalus appendiculatus
many N's few ♂'s & ♀'s

Cattle

Luwafu, Kojia & Mpungwe, Kojia

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (85 & 150 from
Luwafu) (83,90,91,92,93,95 from
Mpungwe)In all his No's the nymphs were
found with adults which are
preserved separately.

C. W. det.

N 3837

RML 113223

8 ♂, 4 ♀ Rhipicephalus
appendiculatus

Cattle

Either County of Buruli (01.20 N,
32.20 E), or (01.35 N, 31.50 E) &
Jinja (00.26 N, 33.12 E), Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (100 ♂'s, ♀'s,
130 1 ♀)

N 3838

RML 113224

1 ♀, 155 N Rhipicephalus
appendiculatus

Cattle

Luwafa, Kojia (00.10 N, 32.47 E),
and Mpungwe (00.27 N, 33.31 E),
Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (85 & 150 from
Luwafu) (83,90,91,92,93,95 from
Mpungwe)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3839	N	3839
		RML	113225
	<u>Amblyomma variegatum</u> <u>♂'s, ♀'s, N's</u>		6 ♂, 2 ♀, 3 N <u>Amblyomma</u> <u>variegatum</u>
	Cattle		Cattle
	Mpungwe, Koja		Mpungwe (00.27 N, 33.31 E), Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (83a)		Received from R. W. Mettam, Entebbe, Uganda (83a)
	C. W. det.		
N	3840	N	3840
		RML	113226
	<u>Amblyomma variegatum</u> <u>♂'s, ♀'s, N's & L</u>		5 ♂, 2 ♀, 33 N, 63 L <u>Amblyomma</u> <u>variegatum</u>
	Cattle & Waterbuck		Cattle & <u>Kobus ellipsiprymus</u>
	Cattle-Mbarara, Ankole, Mpungwe, Koja, Buruli; Waterbuck-Chambura River, Lake George (N's & L's only)		Cattle-Mbarara (00.37 S, 30.30 E), Mpungwe (00.27 N, 33.31 E) Buruli (01.20 N, 32.20 E) or (01.35 N, 31.50 E), Waterbuck-Chambura River (00.07 S, 30.04 E), Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (4,91-93,95 cattle) (34 waterbuck)		Received from R. W. Mettam, Entebbe, Uganda (4,91-93,95 cattle) (34 waterbuck)
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3841

N 3841

RML 113227

Amblyomma sp. prob. variegatum
N's & L's9 N, 18 L Amblyomma variegatum

Cattle

Cattle

Mpungwe, Koja and Luwafu, Koja

Mpungwe (00.27 N, 33.31 E), and
Luwafu (locality not verified),
Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (83,90,92 Mpungwe)
(85 & 150 Luwafu)Received from R. W. Mettam,
Entebbe, Uganda (83,90,92 Mpungwe)
(85 & 150 Luwafu)In lot 92 4 L's were found with
A. variegatum adults & N's.

C. W. det.

N 3842

N 3842 MISSING

Boophilus decoloratus ♂'s, ♀'s & N's

Cattle

Stock Farm, Mbarara, Koja; Lake
Bunyoni Kigesi; Old Entebbe;
Mpungwe, Koja; Lira Stock Farm,
Lango

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (4 Mbarara);
(63 Lake Bunyoni); (71 Old Entebbe);
(90,91,93 Mpungwe); (124 Lango)

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3843

Rhipicephalus evertsi ♂'s & ♀'s

Cattle

Old Entebbe

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (71)

C. W. det.

N 3844

Rhipicephalus appendiculatus
N monstrosity

Cattle

Mpungwe, Koja

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (93)

C. W. det.

N 3843

RML 113228

6 ♂, 3 ♀ Rhipicephalus evertsi

Cattle

Old Entebbe (00.03 N, 32.26 E),
Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (71)

N 3844 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 3845

N 3845

RML 113229

Rhipicephalus ayrei 4 ♂, 2 ♀
CO-TYPES4 ♂, 2 ♀ Rhipicephalus compositus
Syntypes of R. ayrei

Buffalo (abdomen)

Syncerus caffer

Mount Kenya, Kenya Colony

Mount Kenya (00.10 S, 37.20 E),
Kenya

28.X.1930

28.X.1930

E. A. Lewis, Vet Lab., Kabete
(His No. 23) Donor

E. A. Lewis

E.A.L. & C.W. det.

♀ vulva mounted on a slide

See paper by Lewis, Parasitology
vol. 25 p. 269, figs. (1933).Lewis (1933: 269) original
description. Cited: Santos Dias
(1958: 473) who gave the total
number of ticks in this collection
as 3 ♂, 1 ♀.

See also Report p. 129.

No's 3846-3852 were sent 22.VII.1932 by Dr. Charles Searle, Maragua P.O. Nanyuki, Kenya Colony, stating he had 2 cases of typhus on a farm (Maragua) among Europeans. The ticks from dogs in close contact with the cases, sleeping in their beds. Some of the cattle healthy. 18 cases of typhus among Europeans with 1 death. Typhus apparently only in game district where all kind of game abound. Note some ticks rotten. rotten evertsi had black legs:-

N 3846

N 3846 MISSING

Boophilus decoloratus ♂'s, ♀'s, N's

Cattle

Maragua, Kenya Colony

21-22.VII.1932

Dr. C. Searle coll. & gift
Lots 1 & 2 combined

C. W. det.

3846 given to D. S. MacLagan
14/10/38.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3847	N	3847
		RML	113230
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s, N's		16 ♂, 14 ♀, 6 N <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Maragua, Kenya Colony		Maragua (00.47 S, 37.08 E), Kenya
	21-22.VII.1932		21-22.VII.1932
	Dr. C. Searle coll. & gift Lots 1,2,4 combined		Dr. C. Searle
	C. W. det.		
N	3848	N	3848
		RML	113231
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		10 ♂, 3 ♀ <u>Hyalomma truncatum</u>
	Cattle		Cattle
	Maragua, Kenya Colony		Maragua (00.47 S, 37.08 E), Kenya
	21-22.VII.1932		21-22.VII.1932
	Dr. C. Searle coll. & gift Lots 1 & 4 combined		Dr. C. Searle
	C. W. det.		
N	3849	N	3849
		RML	113232
	<u>Boophilus australis</u> ♀'s		3 ♀, 1 N <u>Boophilus decoloratus</u>
	Cattle		Cattle
	Maragua, Kenya Colony		Maragua (00.47 S, 37.08 E), Kenya
	1932		1932
	Dr. C. Searle coll. & gift, Lot 4		Dr. C. Searle
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3850	N	3850
		RML	113233
	<u>Rhipicephalus pulchellus</u> 2 ♂'s		2 ♂ <u>Rhipicephalus pulchellus</u>
	Man (2 men) (the smaller from Lord "K", the larger from man with typhus)		<u>Homo sapiens</u>
	Maragua, Kenya Colony		Maragua (00.47 S, 37.08 E), Kenya
	1932		1932
	Dr. C. Searle coll. & gift Lots 3 & 5 combined		Dr. C. Searle
	C. W. det.		
N	3851	N	3851
		RML	113234
	<u>Haemaphysalis leachi</u> 7 ♀'s		7 ♀ <u>Haemaphysalis leachi</u>
	Dog		Dog
	Maragua, Kenya Colony		Maragua (00.47 S, 37.08 E), Kenya
	1932		1932
	Dr. C. Searle coll. & gift, Lot 6		Dr. C. Searle
	C. W. det.		
N	3852	N	3852
		RML	105659
	<u>Rhipicephalus simus</u> or <u>falcatus</u> 1 ♀		1 ♀ <u>Rhipicephalus hurti</u>
	Dog		Dog
	Maragua, Kenya Colony		Maragua (00.47 S, 37.08 E), Kenya
	1932		1932
	Dr. C. Searle coll. & gift, Lot 6		Dr. C. Searle
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3853

N 3853

RML 113235

Amblyomma nuttalli 3 ♂'s, 1 ♀, larvae3 ♂, 1 ♀ Amblyomma nuttalliVaranus albigularis (general on body)Varanus exanthematicus

Sokoke Forest, Kenya

Sokoke Forest (03.29 S, 39.50 E), Kenya

4.VII.1932

4.VII.1932

E. A. Lewis donor (40)

E. A. Lewis

E.A.L. & C.W. det.

Theiler & Salisbury (1959: 115)
incorrectly gave this collection
Nuttall number 3953.Some eggs and 1 larva raised from
the 1 ♀ are in a separate vial.

N 3854

N 3854

RML 113236

Rhipicephalus maculatus 7 ♂'s, 7 ♀'s7 ♂, 6 ♀ Rhipicephalus maculatusElephas africanus (anus)Loxodonta africana

Tana River, Kenya

Tana River (02.32 S, 40.31 E), Kenya

14.VI.1932

14.VI.1932

E. A. Lewis donor (41)

E. A. Lewis

E.A.L. & C.W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3855, a

N 3855

RML 113237

(3855) Ornithodoros franchini ♀
 (a) Ornithodoros franchini larvae

1 ♀, 25 L Ornithodoros foley

Found on ground

Found on ground

Kiefur, Cyrenaica

Kiefur, Cyrenaica (31.00 N,
22.30 E), Libya

Sent 26.IX.1932

Sent 26.IX.1932

Dr. Floris

Dr. Floris

Sent by Prof. Franchini.

N 3856

N 3856

RML 113238

Dermacentor rhinocerotis
 var. permaculatus 1 ♂

1 ♂ Dermacentor rhinocerus

Black rhinoceros

Diceros bicornis

North Rhodesia

Zambia

Rec'd 6.VII.1932

Rec'd 6.VII.1932

H. S. Purchase.

H. S. Purchase.

Cited: Hoogstraal (1954b: 277)

N 3857

N 3857

RML 113239

Ixodes acutitarsus ♂, ♀1 ♂, 1 ♀ Ixodes acutitarsus

Man (biting)

Homo sapiens

Darjeeling, Himalayas

Darjeeling (27.02 N, 88.16 E), India

13.XI.1925

13.XI.1925

Ex. Calcutta Museum No. 3132
 Arthropod Section

Ex. Calcutta Museum No. 3132
 Arthropod Section

Cited: Hoogstraal (1970c: 80)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3858

Ixodes hexagonus ♀'s

Dog

Cambridge

V.1932

Dr. Boyes

C. W. det.

N 3858

RML 113240

6 ♀ Ixodes hexagonus

Dog

Cambridge (52.13 N, 00.08 E), England

V.1932

N 3859

Amblyomma testudinarium ♂'s, ♀'sSambar, Cervus aristotelis

Dhumpara, Res. Forest, India

V.1926

E. Duars, Sent by C. Strickland
his No. 1A

C. W. det.

N 3859

RML 105682

35 ♂, 17 ♀ Amblyomma testudinarium
1 ♀ Dermacentor auratus groupCervus unicolorDhumpara, Res. Forest, India
(locality not verified)

V.1926

E. Duars

ORIGINAL DETERMINATIONCURRENT STATUS

N 3860

Dermacentor auratus ♂'s, ♀'sCervus aristotelis

Dhumpara, Res. Forest, India

V.1926

E. Duars. Sent by C. Strickland
his No. 1 tube

C. W. det.

N 3860

RML 113241

50 ♂, 22 ♀ Dermacentor auratus groupCervus unicolorDhumpara, Res. Forest, India
(locality not verified)

V.1926

E. Duars

N 3861

Amblyomma testudinis 1 ♂

Tortoise

Jujuy, Argentina

Rec'd. 25.VI.1932

A. Mazza

Rec'd from Prof. G. Franchini.

N 3861

RML 113242

1 ♂ Amblyomma testudinis

Tortoise

Probably Provincia de Jujuy
(23.00 S, 66.00 W), Argentina

Rec'd 25.VI.1932

A. Mazza

N 3862

Ixodes percavatus 3 ♀'s

Dove Petrel

Stephens Island

I.1922

R. J. Tillyard coll. & sender

C. W. det.

N 3862

RML 113243

2 ♀ Ixodes auritulus zelandicusProbably Pachyptila desolataStephens Island (40.40 S, 174.00 E),
New Zealand

I.1922

R. J. Tillyard coll. & sender

ORIGINAL DETERMINATIONCURRENT STATUS

N	3863	N	3863
		RML	113244
	<u>Ixodes</u>		2 ♂, 1 ♀, 1 N <u>Ixodes anatis</u>
	Kiwi, <u>Apteryx</u>		<u>Apteryx australis mantelli</u>
	Wallaceville, New Zealand		Wallaceville (41.08 S, 175.03 E), New Zealand
	Rec'd. 17.III.1921		Rec'd. 17.III.1921
	Rec'd. from H. A. Reid		Rec'd. from H. A. Reid
	C. W. det.		
	Maskell's <u>aptericola</u> ? 3 ♂, 1 ♀, 1 N.		
N	3864	N	3864
		RML	88309
	<u>Aponomma</u> 3 ♂, 1 ♀, 6 N, 2 L		2 ♂, 1 ♀, 6 N, 2 L <u>Aponomma</u> <u>sphenodonti</u>
	<u>Sphenodon punctata</u> (Tuatara lizard)		<u>Sphenodon punctatus</u>
	Stephens Island, New Zealand		Stephens Island (40.40 S, 174.00 E), New Zealand
	22.I.1922		22.I.1922
	R. J. Tillyard		R. J. Tillyard
	C. W. det.		These specimens are part of the same collection of ticks from which Dumbleton (1944: 186B) described <u>Aponomma sphenodonti</u> .
			An additional 1 ♂, 1 N <u>Aponomma</u> <u>sphenodonti</u> are in the collection of Dr. Harry Hoogstraal NAMRU-3 Cairo.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3865

Ornithodoros peringueyi

Petrochelidon spilodera
S. African Cliff Swallow

Onderstepoort nr. Pretoria,
S. Africa

31.VIII.1931

G.A.H. Bedford. Sent 1.IX.1931

3865 See also 3795 both numbers
not co-types, but gift from
Bedford (Onderstepoort).

N 3866

Haemaphysalis cooleyi 3 ♂

Procavia capensis coombi

Onderstepoort nr. Pretoria,
S. Africa

5.VI.1931

G.A.H. Bedford. Sent 1.IX.1931

Bedford det.

3866 Haem. cooleyi Bedford, see
Ann. Rep. Dir. Veter. Services,
Onderstepoort, S. Africa, 1929.
This species described on p. 494,
pl II, figs. 3A & D. All figs.
bad. See paper by Warburton dis-
cussing this sp. in Parasitology.

N 3865

RML 66157

1 ♂, 2 ♀ Ornithodoros peringueyi

Hirundo spilodera

Onderstepoort (25.39 S, 28.11 E),
Republic of South Africa

31.VIII.1931

G.A.H. Bedford. Sent 1.IX.1931

N 3866

RML 113246

3 ♂ Haemaphysalis cooleyi

Procavia capensis

Onderstepoort (25.39 S, 28.11 E),
Republic of South Africa

5.VI.1931

G.A.H. Bedford. Sent 1.IX.1931

These are the specimens upon which
Warburton (1933: 566) based his
redescription of the ♂. Cited:
Hoogstraal (1956b:164).

Chelicerae mounted on a slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3867

Rhipicephalus punctatus 3 ♂
CO-TYPEProcavia capensis coombiOnderstepoort nr. Pretoria,
S. Africa

5.VI.1931

G.A.H. Bedford

Rhip. punctatus Bedford 1929
Same ref. as 3866, p. 495, pl. III,
figs, 4B & D, & 5B. See ms. note
by Warburton in correspondence re
Bedford 1.IX.1931.

N 3868

Haemaphysalis spinulosa 2 ♂

Warthog

Lake Naivasha, Kenya Colony

II.1931

G.A.H. Bedford
Sent 1.IX.1931.

N 3867

RML 113247

3 ♂ Rhipicephalus distinctusProcavia capensisOnderstepoort (25.39 S, 28.11 E),
Republic of South Africa

5.VI.1931

G.A.H. Bedford

With a collection date of 5.VI.1931,
these do not appear to be types.

N 3868

RML 113248

1 ♂ Haemaphysalis spinulosaPhacochoerus aethiopicusLake Naivasha (00.46 S, 36.21 E),
Kenya

II.1931

G.A.H. Bedford
Sent 1.IX.1931.
Cited & figured: Hoogstraal (1964b:788).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3869	N	3869
	<u>Rhipicephalus</u> sp.?	RML	113249
	<u>Nyala</u> <u>angasi</u>		3 ♂, 1 ♀, 4 N <u>Rhipicephalus</u> <u>muehlensi</u>
	False Bay, Zululand		<u>Tragelaphus</u> <u>angasi</u>
	4.II.1930		False Bay (27.59 S, 32.23 E), Zululand, Republic of South Africa
	G.A.H. Bedford Sent 1.IX.1931		4.II.1930
			G.A.H. Bedford Sent 1.IX.1931
N	3870	N	3870
	<u>Rhipicephalus</u> <u>theileri</u> 1 ♂ CO-TYPE	RML	113250
	<u>Atelerix</u> <u>frontalis</u>		1 ♂ <u>Rhipicephalus</u> <u>theileri</u>
	Petrusburg O.F.S.		<u>Erinaceus</u> <u>frontalis</u>
	1931		Petrusburg (29.07 S, 25.25 E), Orange Free State, Republic of South Africa
	G.A.H. Bedford. Sent 1.IX.1931		1931
	Bedford det.		G.A.H. Bedford. Sent 1.IX.1931
			This is not a type specimen.
N	3871	N	3871
	<u>Aponomma</u> <u>laeve</u> 2 ♂, 2 ♀	RML	113251
	<u>Dendraspis</u> <u>angusticeps</u>		1 ♂, 1 ♀ <u>Aponomma</u> <u>latum</u>
	Pretoria Zoo		<u>Dendroaspis</u> <u>angusticeps</u>
	25.VII.1931		Zoological Park, Pretoria (25.45 S, 28.10 E), Republic of South Africa
	G.A.H. Bedford. Sent 1.IX.1931		25.VII.1931
	C. W. det.		G.A.H. Bedford. Sent 1.IX.1931

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3872	N	3872
		RML	113252
	<u>Ixodes petauristae</u> 1 ♀		1 ♀ <u>Ixodes petauristae</u> Holotype
	<u>Petaurista phillipensis</u> (Sciuridae)		<u>Petaurista petaurista</u>
	C. P. Ceylon (Mousa Kande, Gommaduwa)		Mousakande (07.34 N, 80.43 E), Sri Lanka
	Rec'd V.1930		Rec'd V.1930
	? "(W. W. Phillips)" From Tring Museum, Herts per Mr. J. J. Cox		? "(W. W. Phillips)" From Tring Museum, Herts per Mr. J. J. Cox
	C. W. det.		Warburton (1933: 558), original description.
N	3873	N	3873
		RML	113253
	<u>Ixodes ampullaceus</u> 1 ♀		1 ♀ <u>Ixodes ugandanus</u> Lectotype of <u>I. ampullaceus</u> .
	<u>Cricetomys ganibicus</u> (edible rat)		<u>Cricetomys gamianus</u>
	Ankole, Uganda		Kingdom of Ankole (00.30 S, 30.30 E), Uganda
	Sent us 11.III.1931		Sent us 11.III.1931
	Rupert L. L. Hart		Rupert L. L. Hart
	C. W. det.		Warburton (1933: 559) original description of <u>I. ampullaceus</u> . Lectotype designated: Keirans & Brewster (1981: 164).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3874

N 3874

RML 113254

Dermacentor imitans 12 ♂, 1 ♀
TYPES10 ♂, 1 ♀ Dermacentor imitans
Lectotype and paralectotypesPecari angulatus (peccary)Tayassu tajacu

Turrialba, Costa Rica

Turrialba (09.54 N, 83.41 W),
Costa Rica

1.VIII.1927

1.VIII.1927

W. J. Hamilton Junr.
Gift of Prof. R. Matheson,
Cornell Univ.

W. J. Hamilton, Jr.

Warburton (1933: 559), original
description. Cited: Arthur (1960:
97). Lectotype designated: Keirans
& Brewster (1981: 158).

N 3875

N 3875

RML 113255

Aponomma draconis 3 ♂, 6 ♀
TYPES3 ♂, 6 ♀ Aponomma komodoense
Lectotype and paralectotypes of
A. draconisVaranus komodoensisVaranus komodoensisKomodo Isl., Flores, Dutch E. Indies
but for some years at Zool. Soc.
Gdns., LondonKomodo Island (08.36 S, 119.30 E),
Indonesia but for some years in the
Zoological Gardens, London, England.

Sent us IV.1931

Sent us IV.1931

Dr. P. A. Buxton

Dr. P. A. Buxton

C. W. det.

Warburton (1933: 564) original
description. Lectotype designated:
Keirans & Brewster (1981: 158).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3876

Haemaphysalis sp. 1 N dent. 2/2

Paradoxurus hermaphroditus
Subsp.

Sungei Buloh, Selangor

1.V.1930

Mr. B.A.R. Gater "1073"

C. W. det. 20.I.1931.

N 3876 MISSING

N 3877

Haemaphysalis sp. 3 ♂

Tragulus kanchil fulviventer

Sungei Buloh, Selangor

3.V.1930

Mr. B.A.R. Gater "1080"

C. W. det. 20.I.1931.

N 3877

RML 113256

3 ♂ Haemaphysalis traguli

Tragulus javanicus

Kampung Sungai Buloh (03.15 N,
101.18 E), Selangor, Malaysia

N 3878

Haemaphysalis sp. 1 ♂, 1 ♀

Tragulus kanchil fulviventer

Sungei Buloh, Selangor

26.III.1930

Mr. B.A.R. Gater "1014"

C. W. det. 20.I.1931.

N 3878 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 3879

N 3879

RML 113257

Rhipicephalus maculatus 5 ♂, 4 ♀5 ♂, 4 ♀ Rhipicephalus maculatus

Elephant (general)

Loxodonta africana

Tana River, Kenya Colony

Tana River (02.32 S, 40.31 E),
Kenya

8.V.1932

8.V.1932

C. Oulton (on 22.VII.1932
rec'd from Lewis "No. 39")

C. Oulton

C. W. det.

*N.B. fine coloration!

N 3880

N 3880

RML 22291, RML 71456

Haemaphysalis aculeata 4 ♂, 1 ♀, 1 N4 ♂, 1 ♀ Haemaphysalis aculeata

Off own person

Homo sapiens

Bangalore, E. India

Bangalore (12.59 N, 77.35 E), India

3.II.1926

3.II.1926

C. Strickland 3218
Calcutta Sch. of Trop. Med.
He wrote 29.III.1926

C. Strickland

Three slides of dissections

C. W. det.

♂ hypostome
♂ spiracular plate
♂ legs I & IV.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3881

Rhipicephalus kochi 2 ♂
(very small)

Hare (on ear)

Sangole, Kenya Colony

12.II.1931

E. A. Lewis 14

C. W. det.

N 3881

RML 105660

1 ♂ Rhipicephalus muehlensi
3 ♂ Rhipicephalus sanguineus

Hare

Songole (01.30 S, 40.36 E), Kenya

12.II.1931

E. A. Lewis 14

N 3882

Rhipicephalus kochi 13 ♂, 2 ♀

Cattle (tail)

Loilokitok, Kenya Colony
(Southern Masai Preserve, foot
of Mt. Kilimanjaro)

8.II.1932

E. A. Lewis 31

C. W. det.

N 3882

RML 113258

10 ♂, 1 ♀ Rhipicephalus jeanneli
1 ♀ Rhipicephalus hurti

Cattle

Oloitokitok (02.56 S, 37.30 E),
Kenya

8.II.1932

E. A. Lewis 31

N 3883

Rhipicephalus kochi 9 ♂, 12 ♀

Cattle (on bush of tail)

Loilokitok, Kenya Colony

8.II.1932

E. A. Lewis 32

C. W. det.

N 3883

RML 113259

9 ♂, 12 ♀ Rhipicephalus hurti

Cattle

Oloitokitok (02.56 S, 37.30 E), Kenya

8.II.1932

E. A. Lewis 32

ORIGINAL DETERMINATIONCURRENT STATUS

N 3884

N 3884

RML 113260

Hyalomma aegyptium impressum
2 ♂, 10 ♀2 ♂, 9 ♀ Hyalomma truncatum

Cattle (on groin)

Cattle

Lake Magadi, Kenya Colony

Lake Magadi (01.52 S, 36.17 E), Kenya

24.II.1932

24.II.1932

E. A. Lewis 33

E. A. Lewis 33

C. W. det.

N 3885

N 3885 MISSING

Rhipicephalus kochi 1 ♂, 4 ♀
(not characteristic)

Cattle (on udder)

Loitokitok, Kenya Colony

8.II.1932

E. A. Lewis 34

C. W. det.

N 3886

N 3886

RML 66624

Hyalomma aegyptium impressum 5 ♂, 3 ♀6 ♂, 2 ♀ Hyalomma rufipes

Cattle (abdomen)

Cattle

Lamongo, Kenya Colony

Lamongo, Masai Reserve, Kenya
(locality not verified)

4.II.1932

4.II.1932

E. A. Lewis 35

E. A. Lewis 35

C. W. det.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3887	N	3887
		RML	113261
	<u>Hyalomma aegyptium impressum</u> 5 ♂, 2 ♀		5 ♂, 2 ♀ <u>Hyalomma truncatum</u>
	Cattle (groin)		Cattle
	Merueshi, Kenya Colony		Merueshi (02.22 S, 37.33 E), Kenya
	15.II.1932		15.II.1932
	E. A. Lewis 36		E. A. Lewis 36
	C. W. det.		1 ♂ with white parma.
N	3888	N	3888
		RML	113262
	<u>Amblyomma lepidum</u> 1 ♂		1 ♂ <u>Amblyomma lepidum</u>
	Goats (native) on abdomen		Goats
	Kacheliba, Suk, Kenya Colony		Kuchelebai (01.29 N, 35.01 E), Kenya
	9.V.1932		9.V.1932
	E. A. Lewis 38		E. A. Lewis 38
	C. W. det.		
N	3889	N	3889
		RML	113263
	<u>Rhipicephalus sanguineus</u> 4 ♂		4 ♂ <u>Rhipicephalus sanguineus</u>
	<u>Neotis cafra</u> (crown of head)		<u>Neotis cafra</u>
	Kajiado Plains, Kenya Colony		Kajiado District (02.00 S, 36.45E), Kenya
	12.VII.1932		12.VII.1932
	E. A. Lewis 42		E. A. Lewis 42
	C. W. det.		

ORIGINAL DETERMINATION

N 3890

Ornithodoros franchini 4

Bengasi, Cirenaica, N. Africa

Sent 11.VI.1930

Sent by Prof. G. Franchini (Modena)

See Warburton (1932) Parasitology
vol. 24 No. 4 P....
Franchini wrote that this tick
causes "tick bite fever" in
Cirenaica & probably lives on
small rodents in grottoes along-
side rivulets. Tonelli - Rondelli
types come [from] a hole, Oasis of
Gadames, Tripolitania.

N 3891, a

(3891) Ixodes pilosus 1 ♂, 1 ♀
(a) Rhipicephalus oculatus 4 ♂'s 1 ♀

Oreotragus ♀

Ishingiro Hill, Ishingiro County
Ankole, Uganda 5100 ft.

28.XI.1931

Rec'd from W. F. Poulton; Director
Vet. Services, P.O. Box 141
Kampala, Uganda 9.I.1932

C. Warburton det.

CURRENT STATUS

N 3890

RML 97544

1 ♀ Ornithodoros foleyi

Bengasi (32.07 N, 20.04 E), Libya

Sent 11.VI.1930

Sent by Prof. G. Franchini (Modena)

An additional ♀ O. foleyi is in
the collection of Dr. H. Hoogstraal,
NAMRU-3, Cairo

Cited: Warburton (1933: 565);
Hoogstraal & Kaiser (1960: 446)

N 3891a

RML 113264

(3891) MISSING
(a) 4 ♂, 1 ♀ Rhipicephalus punctatus

Oreotragus oreotragus

Ishingiro Hill, District of
Ishingiro (00.50 S, 30.55 E),
Ankole, Uganda (1554m)

28.XI.1931

Rec'd from W. F. Poulton; Director
Vet. Services, P.O. Box 141
Kampala, Uganda 9.I.1932

♀ vulva removed and mounted on a
slide.

ORIGINAL DETERMINATION

CURRENT STATUS

N 3892

N 3892

RML 113265

Rhipicephalus appendiculatus
6 ♂, 5 ♀ (small)

7 ♂, 2 ♀, 2 N Rhipicephalus
appendiculatus

Oreotragus ♂

Oreotragus oreotragus ♂

Shot at Ishingiro

County of Ishingiro (00.50 S,
30.55), District of Ankole,
Uganda (1585 m)

2.XII.1931

2.XII.1931

Rec'd from W. F. Poulton 2.
Director, Vet. Services, P.O.
Box 141, Kampala, Uganda 9.I.1932

Rec'd from W. F. Poulton 2.
Director, Vet. Services, P.O.
Box 141, Kampal, Uganda 9.I.1932

C. Warburton det.

N 3893, a, b

N 3893, a, b

RML 105661

(3893) Amblyomma variegatum 1 ♂
(a) Rhipicephalus simus ♂, ♀ (many)

(3893) 1 ♂ Amblyomma variegatum
(a) 22 ♂, 22 ♀ Rhipicephalus simus
(a) 3 ♂ Rhipicephalus hurti/jeanneli
group

(b) Haemaphysalis parvata 1 ♂, 6 ♀,
1 N

(b) 6 ♀, 1 N Haemaphysalis parmata

Buffalo ♂

Syncerus caffer ♂

Shot N. Masha Plains, Ishingiro
County, Ankole Uganda 4,600 ft.

Perhaps Masha Game Reserve (00.39 S,
30.48 E), County of Ishingiro,
District of Ankole, Uganda (1402 m)

30.XI.1931

30.XI.1931

Rec'd from W. F. Poulton 3.

Rec'd from W. F. Poulton 3.

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3894, a

N 3894, a

RML 113266

(3894) Rhipicephalus appendiculatus
♂'s, ♀'s (feebly developed)(a) Ixodes pilosus 1 ♂, 1 ♀(3894) 5 ♂, 4 ♀ Rhipicephalus
appendiculatus(a) 1 ♂, 1 ♀ Ixodes cavipalpusOreotragus ♂Oreotragus oreotragus ♂Shot at Ishingiro Hill, Ishingiro
Co., Uganda 5200 ft.Ishingiro Hill, County of
Ishingiro (00.50 S, 30.55 E),
District of Ankole, Uganda (1585 m)

2.XII.1931

2.XII.1931

Rec'd from W. F. Poulton 4.

Rec'd from W. F. Poulton 4.

C. W. det. (3894)

G.H.F.N. det. (3894a)

Oreotragus = "Klipspringer"

5 tubes of ticks from 3 of these
antelopes were rec'd no indic.
as to which is which 2 tubes of
28.XI. at 5100 ft. 3 tubes of
2.XII. at 5200 ft.

G.H.F.N.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3895	N	3895
		RML	113267
(3895) <u>Ixodes pilosus</u> 2 ♂, 4 ♀ (a) <u>Rhipicephalus pravus</u> ♂'s, ♀'s		(3895) 2 ♂, 4 ♀ <u>Ixodes cavipalpus</u> (a) 21 ♂, 13 ♀ <u>Rhipicephalus punctatus</u>	
<u>Oreotragus</u> ♂		<u>Oreotragus oreotragus</u> ♂	
Shot at Ishingiro Hill, Ishingiro Co., Uganda 5200 ft.		Ishingiro Hill, District of Ishingiro (00.50 S, 30.55 E), Ankole, Uganda (1585 m)	
2.XII.1931		2.XII.1931	
Rec'd from W. F. Poulton 5.		Rec'd from W. F. Poulton 5.	
C. W. det.		Cited: Walker (1956: 250)	
3895a. <u>Rh. pravus</u> Dönitz 1910 differs from <u>Rh. oculatus</u> Nn. 1901 (a beady eyed sp.) in having an ordinary eye, whence the name " <u>pravus</u> ", the eye being "not right" writes Dönitz. Fide C.W. seem to be intermediate between <u>appendiculatus</u> and <u>oculatus</u> , eyes not beady, but anal plates broad.			
N	3896	N	3896
		RML	113268
<u>Rhipicephalus simus</u> 2 ♂, 3 ♀		2 ♂, 3 ♀ <u>Rhipicephalus simus</u>	
Wart Hog ♂		<u>Phacochoerus aethiopicus</u> ♂	
Lugeye Valley-Ishingiro Co., Ankole, Uganda 4300 Ft.		Lugeye Valley, District of Ishingiro (00.50 S, 30.55 E), Ankole, Uganda (1311 m)	
28.XI.1931		28.XI.1931	
Rec'd from W.F. Poulton 6.		Rec'd from W.F. Poulton 6.	
C.W. det.			

ORIGINAL DETERMINATIONCURRENT STATUS

N 3897, a

N 3897

RML 113269

(3897) Rhipicephalus appendiculatus
♂'s, ♀'s(3897) 7 ♂, 9 ♀ Rhipicephalus
appendiculatus(a) Ixodes pilosus 2 ♀

(a) MISSING

Oreotragus ♀Oreotragus oreotragus ♀Ishingiro Hill, Ishingiro Co.,
Ankole, Uganda 5100 ft.Ishingiro Hill, County of Ishingiro
(00.50 S, 30.55 E), District of
Ankole, Uganda (1554 m)

28.XI.1931

28.XI.1931

Rec'd from W. F. Poulton 7.

Rec'd from W. F. Poulton 7.

C. W. Det.

2891-97 reply 20.I.1932 by
air mail.

N 3898

N 3898

RML 113270

Amblyomma cajennense 3 ♂, 2 ♀3 ♂, 2 ♀ Amblyomma oblongoguttatumCrax panamensis (wild turkey)Crax rubraShot near Alhajuela, Panama
RepublicAlhajuela (09.11 N, 79.38 W),
Panama

Sent to me 23.VIII.1921

Sent to me 23.VIII.1921

L. H. Dunn 336

L. H. Dunn 336

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3899

N 3899

RML 113271

Amblyomma parvum 2 ♂, 1 ♀, 5 N1 ♂, 2 ♀, 5 N Amblyomma parvumSigmodon hispidus chiriquensis
(the cotton rat)Sigmodon hispidus chiriquensis

Balboa, Panama Canal Zone

Balboa (08.57 N, 79.34 W), Panama

Sent to me 23.VIII.1921

Sent to me 23.VIII.1921

L. H. Dunn 371

L. H. Dunn 371

(Caught host in grass)

2 spp? L.E.R. det.

N 3900, a

N 3900, a

RML 113272

(1900) Amblyomma geayi 6 ♂, 1 ♀
(a) Amblyomma varium 1 ♂(1900) 5 ♂, 1 ♀ Amblyomma geayi
(a) 1 ♂ Amblyomma variumBradypus griseus griseus
(3-toed sloth)Bradypus infuscatus griseus

Balboa, Panama Canal Zone

Balboa (08.57 N, 79.34 W), Panama

Sent to me 23.VIII.1921

Sent to me 23.VIII.1921

L. H. Dunn 380-2

L. H. Dunn 380-2

3900 eyes distinct, long palps

3900a eyes obscure, short palps

G.H.F.N.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3901

Ornithodoros talaje
13 diff. stages

From bamboo bed in native hut

Doubtless Panama Canal Zone

Sent to me 23.VIII.1921

L. H. Dunn 385

C. W. det.

N 3901

RML 113273

4 ♂, 6 ♀, 1 N Ornithodoros talaje

From bamboo bed in native hut

Doubtless Panama

Sent to me 23.VIII.1921

L. H. Dunn 385

N 3902, a

(3902) Ixodes ricinus var. scapularis
1 ♀(a) Amblyomma parvum 1 ♂, 1 N (very
small)Felis pardalis mearnsi (ocelot)Host killed near La Cabima,
Panama Republic

Sent me on 23.VIII.1921

L. H. Dunn 395

C. W. det.

N 3902, a

RML 113274

(3902) 1 ♀ Ixodes affinis(a) 1 ♂, 1 N Amblyomma parvumFelis pardalis mearnsi

La Cabima (09.08 N, 79.32 W), Panama

Sent me on 23.VIII.1921

L. H. Dunn 395

N 3903

Amblyomma parvum ♂, ♀, 1 N

Goat (young)

Host wandering on Ancon Hill, Ancon,
Panama Canal Zone

Sent me 23.VIII.1921

L. H. Dunn 404

N. det.

N 3903

RML 113275

75 ♂, 11 ♀, 1 N Amblyomma parvum
1 ♂ Haemaphysalis juxtakochi

Goat

Ancon Hill (08.57 N, 79.33 W), Panama

Sent me 23.VIII.1921

L. H. Dunn 404

ORIGINAL DETERMINATIONCURRENT STATUS

N 3904

N 3904

RML 113276

Amblyomma personatum
~ ♂, 6 ♀31 ♂, 6 ♀ Amblyomma personatum

Rhinoceros

Diceros bicornis

N'Gobit River, Kenya Colony

Ngobit River (01.17 N, 36.47 E), Kenya.
This is an intermittent stream. There
is also a stream named Ngobit, Engare
at (00.02 S, 36.54 E).

XII.1927

XII.1927

R. Daubney donor

R. Daubney donor

C. W. det.

Some few Rhipicephalus simus and
Hyalomma aegyptium, taken with
this lot were thrown away by
C. W. XII.1932. G.H.F.N.

N 3905

N 3905

RML 113277

Boophilus australis 1 ♂, 1 ♀1 ♂, 1 ♀ Boophilus microplus

Cow

Cow

Lachung (Sikkim)
ca 7000 ft.Lachung (27.42 N, 88.45 E),
Sikkim, India
(ca 2134 m)

Received 5.XII.1932

Received 5.XII.1932

C. Strickland
Calcutta, India (His No. 6785)

C. Strickland

C. W. det.

3905. Picked from many specimens.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3906

N 3906

RML 113278

Ixodes nairobiensis 1 ♀1 ♀ Ixodes auriculaelongae
HolotypeOn a mouse
"Serere No. 9"

Mouse

Morogoro, Tanganyika

Morogoro, Tanzania (locality not
verified; 5 possible localities)

XII.1931

XII.1931

W. V. Harris

W. V. Harris

N. & C.W. det.

Arthur (1958: 41) original description.
Cited: Arthur (1965: 119).
The specimen is lacking a capitulum.Received from Miss S. Finnegan on
behalf of the Brit. Mus. Nat.
Hist. 6.XII.1932 in exchange
(sanctioned by the Trustees) for
Ixodes signatus 1 ♂ from our coll.1 ♀ paratype from this series is in
the British Museum (Nat. Hist.)
collection Reg. No. 1932.11.29.1.

N 3907

N 3907

RML 113279

Boophilus australis 1 ♂, 1 ♀1 ♂, 1 ♀ Boophilus microplus

Cattle

Cattle

Subathu, Simla Hills,
near Kasauli, IndiaSubathu, Simla Hills, near Kasauli
(30.55 N, 76.57 E), India

Sent us on 3.XI.1932

Sent us on 3.XI.1932

A medical officer

A medical officer

Sent by Dr. I. M. Puri
C.W. det.
Took pickings & returned rest.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3908	N	3908
		RML	113280
	<u>Hyalomma aegyptium</u> 1 ♂		1 ♂ <u>Hyalomma anatolicum anatolicum</u>
	Cattle		Cattle
	Subathu, Simla Hills, near Kasauli, India		Subathu, Simla Hills, near Kasauli (30.55 N, 76.57 E), India
	Sent us on 3.XI.1932		Sent us on 3.XI.1932
	A medical officer		A medical officer
	Sent by Dr. I. M. Puri C.W. det. Took pickings & returned rest.		
N	3909	N	3909
		RML	113281
	<u>Haemaphysalis parmata</u> 2 ♀'s		2 ♀ <u>Haemaphysalis parmata</u>
	Blue Forest Duiker		<u>Cephalophus monticola</u>
	Mabira Forest, Kyagwe, Uganda		Mabira Forest (00.29 S, 30.33 E), Kingdom of Ankole, Uganda
	Sent to us on 30.XII.1932		Sent to us on 30.XII.1932
	R. W. Mettam, Entebbe, coll. & gift 1933 His No. 209		R. W. Mettam 209
	C.W. det.		
N	3910	N	3910
		RML	113282
	<u>Amblyomma cuneatum</u> 4 ♂'s		4 ♂ <u>Amblyomma compressum</u>
	Spiny Ant-eater		<u>Manis</u> sp.
	Entebbe, Uganda		Entebbe (00.04 N, 32.28 E), Uganda
	Sent to us on 30.XII.1932		Sent to us on 30.XII.1932
	R. W. Mettam 284		R. W. Mettam 284
	C.W. det.		Cited: Mettam (1933:36).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3911

N 3911

RML 113283

Dermacentor rhinocerotis 3 ♂'s, 1 ♀3 ♂, 1 ♀ Dermacentor rhinocerinus

Off grass

Off grass

Maruzi, Lango, Uganda

County of Maruzi (01.50 N,
32.25 E), District of Lango,
Uganda

Sent to us 30.XII.1932

Sent to us 30.XII.1932

R. W. Mettam 309a

R. W. Mettam 309a

C. W. det.

Cited: Mettam (1933:36).

N 3912

N 3912

RML 113284

Amblyomma petersi 1 ♂, 4 ♀'s1 ♂, 4 ♀ Amblyomma rhinocerotis

Off grass

Off grass

Kibuzi, Lango, Uganda

Possibly Kibuzi (01.54 N, 32.23 E),
District of Lango, Uganda

Sent us on 30.XII.1932

Sent us on 30.XII.1932

R. W. Mettam 311

R. W. Mettam 311

C. W. det.

Cited: Mettam (1933:36).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3913

Amblyomma petersi 1 ♂, 3 ♀

Off grass (unfed)

Sent to us on 30.XII.1932

R. W. Mettam 314

C.W. det.

Lot contained 3 ♂, 8 ♀

N 3914

Amblyomma cohaerens 6 ♂, 3 ♀

Buffalo

Koja, Buganda

Sent us on 30.XII.1932

J. Carmichael 105

C.W. det.

Lot contained 11 ♂, 7 ♀

N 3913

RML 113285

1 ♂, 3 ♀ Amblyomma rhinocerotis

Off grass (unfed)

Possibly Kibuji (01.54 N, 32.23 E),
District of Lango, Uganda

Sent to us on 30.XII.1932

R. W. Mettam 314

Cited: Mettam (1933: 36).

N 3914

RML 113286

6 ♂, 3 ♀ Amblyomma cohaerensSyncerus caffer

Koja (00.10 N, 32.47 E), Uganda

Sent us on 30.XII.1932

J. Carmichael

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3915	N	3915
		RML	113287
	<u>Amblyomma tholloni</u> 1♂		1 ♂ <u>Amblyomma tholloni</u>
	Elephant		<u>Loxodonta africana</u>
	Bunyoro		District of Bunyoro (01.40 N, 31.30 E), Uganda
	Sent to us on 30.XII.1932		Sent to us on 30.XII.1932
	Game Ranger 235		Game Ranger 235
	C.W. det. Lot contained 2 ♂, 1♀		
N	3916	N	3916
		RML	113288
	<u>Dermacentor circumguttatus</u> 1 ♂		1 ♂ <u>Dermacentor circumguttatus</u>
	Elephant		<u>Loxodonta africana</u>
	Bunyoro		District of Bunyoro (01.40 N, 31.30 E), Uganda
	Sent to us on 30.XII.1932		Sent to us on 30.XII.1932
	Game Ranger 235a		Game Ranger 235a
	C.W. det. Lot contained 2 ♂		
N	3917	N	3917
		RML	113289
	<u>Aponomma exornatum</u> 5 ♂, 3 ♀		3 ♂, 2 ♀ <u>Aponomma exornatum</u>
	<u>Varanus</u>		<u>Varanus</u> sp.
	Victoria, Nyanza		Victoria, Lake (01.00 S, 33.00 E), Uganda
	Sent to us on 30.XII.1932		Sent to us on 30.XII.1932
	R. W. Mettam 104		R. W. Mettam 104
	C.W. det. Lot contained 14 ♂, 5 ♀.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3918	N	3918 MISSING
	<u>Ixodes hexagonus</u> 1 N SLIDE		
	Unknown		
	Europe		
	G.H.F.N. det.		
	3918 An old slide with green paper cover found in a cabinet labelled <u>Ix. ricinus</u> .		
N	3919	N	3919
		RML	113290
	<u>Dermacentor parumapertus</u>		24 ♂, 7 ♀ <u>Dermacentor parumapertus</u>
	Jackrabbit		<u>Lepus</u> sp.
	Sandview, Idaho, U.S.A.		Grand View (43.00 N, 116.04 W), Idaho, U.S.A.
	VII.1932		VII.1932
	Prof. R. A. Cooley, Hamilton, Montana, U.S.A. gift		Prof. R. A. Cooley, Hamilton, Montana, U.S.A. gift
	C.W. det.		
N	3920	N	3920
		RML	113291
	<u>Rhipicephalus supertritus</u> ♂		1 ♂ <u>Rhipicephalus supertritus</u>
	<u>Hyrax</u> sp.		<u>Procavia</u> sp.
	S.W. Shore, Lake Nyasa		Southwest shore of Lake Malawi (approx. 13.50 S, 34.25 E), Malawi
	1910		1910
	Imp. Bur. Entomol. No. 68b		
	N. & C.W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3921

N 3921

RML 113292

Argas persicus 1st & 2nd stage N's10 first stage N, 64 second stage N
Argas persicusRegeneration experiments, after
various leg amputations on gorged
larvae and 1st stage nymphsRegeneration experiments, after
various leg amputations on gorged
larvae and 1st stage nymphsExperiments conducted at Cambridge
(52.13 N, 00.08 E), EnglandSee Hindle & Cunliffe (I.1914)
Parasitology vi. 353-371, 4 figs.Ticks from many diff't. expt's
put in 2 tubes by me II.1933 to
save space, the tubes put in tick
coll. bottle AbnormalitiesThese specimens in a jar marked
"Tick Abnormalities"

Cited: Hindle & Cunliffe (1914: 353)

N. & C.W. det.

N 3922

N 3922 MISSING

Ornithodoros franchini larvae
unfed

Cirenaica, N. Africa

Rec'd. 26.II.1933

From Prof. Franchini Modena

Franchini det.

Franchini wrote saying larvae
had refused to feed & suggested
that we describe these. C.W.
replied 28 Feb. thanking for
specimens & saying Signorina
Tonelli as author of species
should describe them.

ORIGINAL DETERMINATION

N 3923

Ixodes eudyptidis 4 ♀, 1 N

Penguin

Picked up on beach, Gisborne,
New Zealand

Posted 17.I.1934

By C.S.M. Hopkirk His gift

C.W. & G.H.F.N. det. 22.II.1934

Mr. Hopkirk, Officer in Charge,
Veterinary Lab., Livestock
Division, Dept. of Agric.,
Wallaceville, New Zealand,
wrote it appears to be
Ixodes nuttalli (it is not).

N 3924

Ixodes sp. 2 N

Golden mole ♀ (No. 1213)

Mushongcus, L. Mutanda
Kigezi, S.W. Uganda 6500 ft.10.XI.1933
(rec'd 15.II.1934)

C.R.S. Pitman

C.W. & G.H.F.N. det.

Closely allied to Ix. tenuirostrisCURRENT STATUS

N 3923

RML 113293

4 ♀, 1 N Ixodes eudyptidis

Penguin

Gisborne (38.40 S, 178.01 E),
New Zealand

Posted 17.I.1934

By C.S.M. Hopkirk His gift

N 3924

RML 113294

2 N Ixodes sp.Chrysochloris sp.Mushongcus, Lake Mutanda (01.13 S,
29.40 E), District of Kigezi,
Uganda10.XI.1933
(rec'd 15.II.1934)

C.R.S. Pitman

ORIGINAL DETERMINATIONCURRENT STATUS

N 3925

N 3925

RML 113295

Haemaphysalis leachi ♂, ♀'s, N, L1 ♂, 8 ♀, 2 N Haemaphysalis leachi

Otter ♀

Aonyx sp.

L Bunyonyi - Kigezi, Uganda

Lake Bunyonyi (01.17 S, 29.55 E),
District of Kigezi, Uganda

20.XI.1933

29.XI.1933

C.R.S. Pitman

C.R.S. Pitman

C.W. det.

N 3926

N 3926

RML 113296

Amblyomma marmoreum 1 ♀1 ♀ Amblyomma sparsum

Off grass

Off grass

Narrosura, Kenya

Probably Marosura (01.32 S,
35.52 E), Kenya

29.XI.1932

29.XI.1932

E. A. Lewis coll. & donor
his "A.M. 12."

E. A. Lewis

E.A.L. & C.W. det.

Cited: Theiler & Salisbury (1959: 112).

N 3927

N 3927

RML 113297

Amblyomma splendidum 1 ♂1 ♂ Amblyomma splendidum

Eland antelope

Taurotragus oryx

Mara River, Kenya

Mara River (00.21 S, 37.53 E), Kenya

20.XII.1932

20.XII.1932

E. A. Lewis coll. & donor
"A.V. 136"

E. A. Lewis

E.A.L. & C.W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3928

N 3928

RML 69896

Haemaphysalis aciculifer2 ♀ Haemaphysalis aciculifer

a) gorged: 1 ♀

b) unfed: 1 ♀

a) Calf (Masai)

b) Thompson's Gazelle

a) Ndulele-Nairro Ngare, Kenya

b) Narrosura, Kenya

a) Calf

b) Gazella thomsoni

a) Ndulele (01.06 S, 36.05 E)

b) Probably Narosura (01.32 S, 35.52 E),
Kenya

a) 26.XI.1932

b) 29.XI.1932

a) 26.XI.1932

b) 29.XI.1932

E. A. Lewis

E. A. Lewis

a) "H.A. 130"

b) "H.A. 133"

Santos Dias (1958: 535) gave the
total number of specimens in this
collection as 7♂, 19 ♀.

N 3929

N 3929

RML 113298

Ixodes pilosus1 ♂, 27 ♀ Ixodes lewisi

Cattle

Cattle

Kenya

5 lots

combined

Loitokitok
Bongri Forest Sta.
Ildungushi
Osubugo Loita
Vorijo

01oitokitok (02.56 S, 39.30 E);
Bongri Forest Sta. (locality not
verified): Ildungushi (01.35 S,
35.35 E); Osubugo Loita (locality
not verified); Vorijo (locality not
verified); Kenya

8.II.1932; 9.II.1932; 9.II.1932;
30.XI.1932; 30.XI.1932

8.II.1932; 9.II.1932; 9.II.1932;
30.XI.1932; 30.XI.1932

E. A. Lewis SF 637; SF 671;
SF 19; IP 16; IP 17

E. A. Lewis

E.A.L. & C.W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3930

Ixodes pilosus

Goats

Loitokitok, Kenya

8.II.1932

E. A. Lewis
SF 636

E.A.L. & C.W. det.

N 3930

RML 113299

4 ♂, 4 ♀ Ixodes lewisi

Goats

Oloitokitok (02.56 S, 39.30 E), Kenya

8.II.1932

E. A. Lewis

N 3931

Ixodes pilosus

Genet Cat (head)

Ngong, Kenya

29.XI.1931

L. T. Boreham
I.P. 13

E.A.L. & C.W. det.

N 3931

RML 113300

1 L Ixodes sp.Genetta sp.

Ngong (01.22 S, 36.39 E), Kenya

29.XI.1931

L. T. Boreham

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3932	N	3932
	<u>Ixodes pilosus</u>	RML	113301
	Thompson's Gazelle		3 ♀ <u>Ixodes lewisi</u>
	Barketabuk, Kenya		<u>Gazella thomsoni</u>
	Narrosura, Kenya		Barketabuk (locality not verified). Probably Narosura (01.32 S, 35.52 E), Kenya
	5.XII.1932		5.XII.1932
	29.XI.1932		29.XI.1932
	E. A. Lewis coll. & gift		E. A. Lewis
	"I.P. 18 & 15" combined		
	E.A.L. & C.W. det.		
N	3933	N	3933
	<u>Rhipicephalus ayrei</u> ♂, ♀'s	RML	113302
	♂ from Eland		1 ♂, 2 ♀ <u>Rhipicephalus compositus</u>
	♀'s from Lion		<u>Taurotragus oryx</u>
	Mara River, Kenya (Eland)		<u>Panthera leo</u>
	Ngong, Kenya (Lion)		Mara River (00.21 S, 37.53 E), Ngong (01.22 S, 36.39), Kenya
	20.XII.1932		20.XII.1932
	29.X.1932		29.X.1932
	E. A. Lewis		E. A. Lewis
	"R.A. 105"		
	"R.A. 78"		
			Cited: Santos Dias (1958: 473).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3934

N 3934

RML 113303

Rhipicephalus kochi ♂, ♀2 ♂, 12 ♀ Rhipicephalus jeanneli

- a) Cattle (Masai)
- b) Cattle (Masai)
- c) Calf (Masai)
- d) Lion

- a) Cattle
- b) Cattle
- c) Calf
- d) Panthera leo

- a) nr. Ndulele
- b) Ndulele, Naiarg, Ngore
- c) Naiarg Ngore
- d) Ngong

- a) nr. Ndulele (01.06 S, 36.05 E);
- b) Ndulele (01.06 S, 36.05 E);
- c) Naiarg Ngore (locality not verified);
- d) Ngong (01.22 S, 36.39 E), Kenya

a-c) 26.XI.1932
d) 29.X.1932

a-c) 26.XI.1932
d) 29.X.1932

E. A. Lewis a) R.A. 79; b) R.A. 80,
c) R.A. 81, d) R.A. 77

E. A. Lewis

E.A.L. det.

N 3935

N 3935

RML 113304

Rhipicephalus simus var.
lunulatus 1 ♂1 ♂ Rhipicephalus lunulatus

Lion

Panthera leo

Masai area

Masai land area (01.45 S, 36.00 E),
Kenya

20.XII.1930

20.XII.1930

E. A. Lewis R.S. 30

E. A. Lewis

E.A.L. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3936

N 3936

RML 113305

Rhipicephalus maculatus
♂'s, ♀'s (fine lot)26 ♂, 48 ♀ Rhipicephalus maculatus

Elephant

Loxodonta africana

Tana River

Tana River (02.32 S, 40.31 E), Kenya

18.XII.1931

18.XII.1931

Gift of E. A. Lewis IX.1933

Gift of E. A. Lewis IX.1933

N 3937

N 3937

RML 113306

Ornithodoros moubata ♂'s, ♀, N's2 ♂, 3 ♀, 12 N Ornithodoros moubataPhacochoerus in burrowsPhacochoerus aethiopicus burrowsLake Edward region & notably
in plain of Ratchum riverLake Edward region (00.21 S, 29.35 E),
plain of Ratchum River (locality not
verified), Zaire

Sent 12.VII.1933

Sent 12.VII.1933

Dr. J. Schwetz

Dr. J. Schwetz

G.H.F.N. det. 3.IX.1933
Confirmed J.S.'s det.3937 Sent by Dr. Schwetz from
Lab de Parasitol. Stanleyville,
Belgian Congo numerous in
burrows, called (ticks)
"Kimputu".

ORIGINAL DETERMINATIONCURRENT STATUS

N	3938	N	3938
		RML	113307
	<u>Ixodes tasmani</u> ♂, N's, L		1 ♂, 1 N, 1 L <u>Ixodes tasmani</u>
	♂ off <u>Petauroides volans</u>		<u>Schoinobates volans</u>
	2 N, 1 L off <u>Trichosurus vulpicola</u>		<u>Trichosurus vulpecula</u>
	Gippsland Victoria, Australia		Gippsland (38.00 S, 147.50 E), Victoria, Australia
	Before 1916		Before 1916
	T. H. Johnston		T. H. Johnston
	G.H.F.N. det.		Cited: Nuttall (1916: 324)
	See descr. Nuttall (1916) <u>Parasitology</u> VIII, pp 329		Specimens mounted on two slides. The 3rd slide is missing.
	♂ not descr. in Ticks II		
	Hosts Marsupials		
	<u>P. volans</u> = flying phalanger		
	<u>T. vulpicola</u> vulpine phalanger.		
	3 slides balsam.		
N	3939	N	3939
		RML	113308
	<u>Amblyomma testudinarium</u> 2 ♂, 2 ♀		3 ♂, 3 ♀ <u>Amblyomma testudinarium</u>
	Bear		<u>Helarctos malayanus</u>
	Selangor, Malaya		State of Selangor (03.10 N, 101.30 E), Malaysia
	Rec'd 7.VIII.1934		Rec'd 7.VIII.1934
	Gift of L. G. Saunders coll.		Gift of L. G. Saunders coll.
	C.W. det.		
	3939 to 3941 brought by Dr. Saunders (of Saskatoon Univ. Sask., Canada) when he visited us - he worked here with us of old.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3940, a	N	3940, a
		RML	113309
	(3940) <u>Dermacentor auratus</u> 9 ♂, 4 ♀		(3940) 8 ♂, 5 ♀ <u>Dermacentor</u> sp.
	(a) <u>Haemaphysalis</u> sp. 1 ♂, 1 ♀		(a) 1 ♂, 1 ♀ <u>Haemaphysalis nadchatrami</u>
	Wild Boar		<u>Sus scrofa</u> subsp.
	Selangor, Malaya		State of Selangor (03.10 N, 101.30 E), Malaysia
	26.I.1934		26.I.1934
	Gift of Dr. L. G. Saunders coll.		Gift of Dr. L. G. Saunders coll.
	C.W. & G.H.F.N. det.		
N	3941	N	3941
		RML	113310
	<u>Dermacentor atrosignatus</u> 5 ♂, 3 ♀		5 ♂, 1 ♀ <u>Dermacentor</u> sp.
	Bear		<u>Helarctos malayanus</u>
	Selangor, Malaya		State of Selangor (03.10 N, 101.30 E), Malaysia
	Rec'd. 7.VIII.1934		Rec'd. 7.VIII.1934
	Gift of Dr. L. G. Saunders coll.		Gift of Dr. L. G. Saunders coll.
	C. W. det.		
	3941 ♂ well fig'd. by Nn (IV.1906 p. 211, dorsum); "♀ unknown". - "origin unknown, probably Australian." descr. from 1 ♂ in Brit. Museum.		
	<u>Type</u>		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3942

N 3942

RML 10447

Haemaphysalis hystrix 1 ♂, 2 ♀3 ♀ Haemaphysalis longicornis

Goats

Goats

On mountains 40 miles from
Tsinan, Shantung, ChinaOn mountains 64 km from Tsinan
(36.40 N, 117.00 E), Shantung, Peoples
Republic of China

Summer, 1934

Summer, 1934

R. T. Shields coll; gift of
Prof. R. A. CooleyR. T. Shields coll; gift of
Prof. R. A. Cooley

C.W. det.

3 ticks sent 20.XI.1934 to me by
Prof. R. A. Cooley (Rocky Mt.
Lab., Hamilton, Montana, U.S.A.)
who ran them down in "Ticks" to
this sp. C.W. finds them "not
quite normal, but quite within
known variations." We to keep
specimens. G.H.F.N.

N 3943

N 3943

RML 113311

Amblyomma mantiqueirense 9 ♂, 1 ♀9 ♂, 1 ♀ Amblyomma naponensePecari angulatus (Peccary)Tayassu tajacu

Turrialba, Costa Rica

Turrialba (09.54 N, 83.41 W),
Costa Rica

1.VIII.1927

1.VIII.1927

W. J. Hamilton, Jr.

W. J. Hamilton, Jr.

C. W. det.

Gift of Prof. Matheson 11.II.1928.

<u>ORIGINAL DETERMINATION</u>	<u>CURRENT STATUS</u>
N 3944 <u>Rhipicephalus simus</u> ♂'s, ♀'s Warthog Ankole, Uganda Rec'd 22.I.1934 W. F. Poulton Rec'd from Mettam 420 C.W. det.	N 3944 RML 113312 47 ♂, 14 ♀ <u>Rhipicephalus simus</u> <u>Phacochoerus aethiopicus</u> District of Ankole (00.30 S, 30.30 E), Uganda Rec'd 22.I.1934 W. F. Poulton
N 3945 <u>Ixodes cavipalpus</u> 1 ♀ Bukoba, Tanganyika Rec'd V.1933 Mettam 216a C.W. det.	N 3945 RML 113313 1 ♀ <u>Ixodes cavipalpus</u> Bukoba (01.20 S, 31.49 E), Tanzania Rec'd V.1933 R. W. Mettam
N 3946 <u>Amblyomma cuneatum</u> 10 ♂ Pangolin Entebbe, Uganda Rec'd 22.I.1934 R. W. Mettam 410 C.W. det.	N 3946 RML 113314 9 ♂ <u>Amblyomma compressum</u> <u>Manis</u> sp. Entebbe (00.04 N, 32.28 E), Uganda Rec'd 22.I.1934 R. W. Mettam

ORIGINAL DETERMINATIONCURRENT STATUS

N 3947

N 3947

RML 113315

Rhipicephalus appendiculatus25 ♂, 43 ♀, 1 N Rhipicephalus
appendiculatus

Cattle

Cattle

Kigezi, Uganda

Kigezi (00.16 N, 31.37 E),
District of Kigezi, Uganda

Rec'd 22.I.1934

Rec'd 22.I.1934

W. Mackintosh
Rec'd from Mettam 347

W. Mackintosh

C.W. det.

N 3948

N 3948

RML 113316

Amblyomma cuneatum 2 ♀2 ♀ Amblyomma compressum

Pangolin

Manis sp.

Mabira Forest, Uganda

Mabira Forest (00.30 N, 32.55 E),
District of Buganda, Uganda

Rec'd 22.I.1934

Rec'd 22.I.1934

Capt. Pitman
Rec'd from Mettam 414

Capt. Pitman

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3949	N	3949
		RML	113317
	<u>Rhipicephalus</u> sp.		1 ♂, 1 ♀ <u>Rhipicephalus</u> sp.
	Sitatunga, <u>Tragelaphus spekei</u>		<u>Tragelaphus spekei</u>
	Luwafu, Uganda		Luwafu, Uganda (locality not verified)
	Rec'd V.1933		Rec'd V.1933
	W. F. Poulton Rec'd from Mettam 338		W. F. Poulton
	C.W. det.		These specimens are <u>Rhipicephalus</u> species III of Yeoman & Walker (1967: 174).
N	3950	N	3950 MISSING
	<u>Haemaphysalis</u> sp. 1♂		
	Buffalo		
	Masha ?		
	[?Masha Game Reserve, Uganda]		
	Rec'd from Mettam 77.		
N	3951	N	3951 MISSING
	Leopard		
	Belgian Congo		
	Mrs. van den Bergh		
	C.W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3952

N 3952

RML 113318

Haemaphysalis calcarata
♂'s, ♀'s, N's4 ♂, 3 ♀, 1 N Haemaphysalis houyiEuxeni erythropus (ground squirrel)Xerus erythropus

Kampala, Uganda

Kampala (00.19 N, 32.35 E), Uganda

10.V.1934

10.V.1934

"Gordon" coll.

"Gordon" coll.

Gordon Burnett Thompson (1911-1979)

Sent by G. B. Thompson of Brit.
28.VIII.1934

For an obituary see George (1981: 87).

N 3953

N 3953

RML 113319

Amblyomma marmoreum ♂'s, ♀'s3 ♂ Amblyomma rhinocerotis
1 ♂, 2 ♀ Amblyomma sparsum

Rhinocerus

Diceros bicornis or
Ceratotherium simum

Karamoja, Uganda

District of Karamoja (02.45 N,
34.15 E), Uganda

Rec'd X.1934

Rec'd. X.1934

J. Carmichael 471

J. Carmichael 471

C.W. det.

Theiler & Salisbury (1959: 113)
cited the A. sparsum collection.
They also (p. 115) incorrectly
gave N3953 to an Amblyomma nuttalli
collection from Kenya.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3954

Haemaphysalis aciculifer

Sitatunga, Tragelaphus spekei

Lake Victoria, Uganda

Rec'd X.1934

J. Carmichael 488

C.W. det.

N 3955

Amblyomma mantiquirense 1 ♀

Sitatunga, Tragelaphus spekei

Tela, Honduras, Central America

1926

R. Deyo

C.W. det.

N 3954

RML 70083

8 ♂, 4 ♀ Haemaphysalis aciculifer

Tragelaphus spekei

Lake Victoria (01.00 S, 33.00 E), Uganda

Rec'd X.1934

J. Carmichael 488

Cited: Santos Dias (1958: 535).

N 3955

RML 113320

1 ♀ Amblyomma naponense

Host unknown; obviously not Tragelaphus spekei

Tela (15.44 N, 87.27 W), Honduras

1926

R. Deyo

ORIGINAL DETERMINATIONCURRENT STATUS

N 3956

Amblyomma testudinarium 1 ♂, 1 ♀

Elephant

Assam

Sent us 9.VIII.1934

A.W.N. Pillers

C.W. det.

3956 Asked to keep lot here.
Recorded from many hosts, but
not elephant.

N 3956

RML 22318

1 ♂, 1 ♀ Amblyomma testudinariumElephas maximusState of Assam (26.00 N, 93.00 E),
India

Sent us 9.VIII.1934

A.W.N. Pillers

N 3957

Ornithodoros talaje of sorts C.W.

In chicken house

Palestine (Jerusalem)

IV.1930

Theodore

C.W. det.

N 3957

RML 61134

2 ♂, 1 ♀ Ornithodoros coniceps

Chicken house

Jerusalem (31.46 N, 35.14 E), Israel

IV.1930

O. Theodor

An additional ♀ is in the RML
collection.

Cited: Hoogstraal et al (1979: 404)
but collecting data incorrect.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3958

Rhipicephalus maculatus
many ♂'s, ♀'s

Elephant

Tana River, Kenya

Brought XI.1933

Brought by E. A. Lewis gift

C.W. & E.A.L. det.

N 3959

Rhipicephalus simpsoni 2 ♂, 3 ♀

Edible rat

Joro, Uganda

Rec'd by us X.1934

J. Carmichael No. 493
Entebbe, Uganda

C.W. det.

N 3958

RML 113321

73 ♂, 64 ♀ Rhipicephalus maculatus

Loxodonta africana

Tana River (02.32 S, 40.31 E), Kenya

Brought XI.1933

Brought by E. A. Lewis gift

N 3959

RML 113322

6 ♂, 4 ♀, 3 N Rhipicephalus simpsoni

Thryonomys sp.

Joro, Uganda (locality not verified)

Rec'd by us X.1934

J. Carmichael

ORIGINAL DETERMINATIONCURRENT STATUS

N 3960

Rhipicephalus pulchellus
1 ♂, 1 ♀ larvae unfed

Off grass

Italian Somaliland

Rec'd 4.V.1934

Coll. Dr. Giordano
G. Franchini (Modena) gift

C.W. det.

N 3960

RML 113323

1 ♂, 1 ♀ ±1000 L Rhipicephalus
pulchellus

Off grass

Somali Democratic Republic

Rec'd 4.V.1934

Coll. Dr. Giordano

N 3961

Amblyomma cuneatum ♂'s, ♀'s, N'sManis tricuspis
(white bellied pangolin)

Zool. Soc. Gardens, London

2.VI.1934

A. E. Hamerton coll; gift of
Prof. P. A. Buxton

C.W. det.

N 3961

RML 113324

3 ♂, 3 ♀, 25 N Amblyomma compressumManis tricuspisZoological Society Gardens, London
(51.30 N, 00.07 W), England

2.VI.1934

A. E. Hamerton

ORIGINAL DETERMINATIONCURRENT STATUS

N	3962	N	3962
		RML	113325
	<u>Hyalomma dromedarii</u> 1 ♂, 1 ♀, or <u>aegyptium</u> var.		1 ♂, 1 ♀ <u>Hyalomma dromedarii</u>
	Camel		<u>Camelus dromedarius</u>
	Italian Somaliland		Somali Democratic Republic
	Rec'd VII.1933		Rec'd VII.1933
	Dr. Talamonte & Dante Rec'd from Prof. Franchini		Dr. Talamonte & Dante
	C.W. det.		
N	3963	N	3963
		RML	113326
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		1 ♂, 18 ♀ <u>Hyalomma dromedarii</u>
	Camels		<u>Camelus dromedarius</u>
	Tripoli		Tripoli (32.54 N, 13.11 E), Libya
	Dr. Berti coll. Rec'd. from Prof. Franchini		Dr. Berti
	C.W. det.		Ventrally, the ♂ has an abnormal spur on left coxa I.
N	3964	N	3964
		RML	113327
	<u>Ixodes vespertilionis</u> 1 ♀		1 ♀ <u>Ixodes vespertilionis</u>
	Greater horse-shoe bat <u>Rhinolophus</u> <u>ferrum-equinum</u> (on back)		<u>Rhinolophus ferrumequinum</u>
	Cheddar Caves, Somerset, Engl.		Cheddar Caves, Cheddar (51.16 N, 02.46 W), Somerset, England
	VIII.1933		VIII.1933
	R. C. Burbank. Gift of G. Gordon Thompson		R. C. Burbank
	C.W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3965

Amblyomma dissimile 1 ♂, 1 ♀

Iguana

Audubon Zoo, New Orleans, U.S.A.

4.XII.1931

Dr. E. H. Hinman

C.W. & G.H.F.N. det.

N 3965

RML 113328

1 ♂, 1 ♀ Amblyomma dissimile

Iguana

Audubon Zoo, New Orleans (29.58 N, 90.07 W), Louisiana, U.S.A.

4.XII.1931

Dr. E. H. Hinman

N 3966

Ornithodoros brodyi

Chilibrillo Caulo, Panama

18.II.1931

R. Matheson

R. Matheson det.

N 3966

RML 113329

1 N Ornithodoros brodyi

Chilibrillo (09.11 N, 79.37 W), Panama

18.II.1931

R. Matheson

N 3967

Ornithodoros dunni

Dirias albiventris minor

Panama City

31.III.1931

R. Matheson

N 3967

RML 113330

1 N, 2 L Ornithodoros hasei

Noctilio labialis

Panama City (08.58 N, 79.32 W), Panama

31.III.1931

R. Matheson

ORIGINAL DETERMINATIONCURRENT STATUS

N 3968

N 3968

RML 113331

Ornithodoros azteci1 ♂, 1 ♀ Ornithodoros azteciHemiderma perspicillatum aztecumCarollia perspicillata azteca

Summit, Canal Zone

Summit Park (09.04 N, 79.39 W), Panama

12.XI.1930

12.XI.1930

R. Matheson

R. Matheson

N 3969

N 3969

RML 113332

Amblyomma pecarium2 ♂ Amblyomma pecariumPecari angulatus bangsi
collared peccaryTayassu tajacu

Miraflores, Canal Zone, Panama

Miraflores (08.59 N, 79.36 W), Panama

11.IV.1932

11.IV.1932

N 3970

N 3970

RML 113333

Amblyomma tapirellum3 ♂, 3 ♀ Amblyomma tapirellumTapirella bairdiiTapirus bairdi

Summit, Canal Zone, Panama

Summit Park (09.04 N, 79.39 W), Panama

7.III.1931

7.III.1931

L. H. Dunn

L. H. Dunn

ORIGINAL DETERMINATIONCURRENT STATUS

N 3971

Amblyomma parvitarsum

Llama

S. Leon - Jujuy, R. Argentina

V.1935

S. Mazzo

L.E.R. det.

3971. The specimens were given
by Dr. H. deB Aragão of the
Instituto Oswaldo Cruz, Rio de
Janeiro, as examples of Amb.
altiplanum Dias.

N 3971 MISSING

2 ♂, 1 ♀ pinned specimens (N3971)
are in BMNH collection.

N 3972

Amblyomma parvum

N 3972

RML 113334

1 ♂ Amblyomma parvum

Rato selvagen ? (name not verified)

Estado de Goyaz, now Estado de Goiás
(12.00 S, 48.00 W), Brazil

1935 ?

H. Tonfeia ?

All collection data taken from a
label pasted on the outside of
the vial.

Two tick collections never received Nuttall catalogue numbers:

21 ♂, 53 ♀ Rhipicephalus sanguineus (RML 113335)

Dog

India

1915

1 ♂, 41 ♀, 6 N Boophilus microplus (RML 113336)

Nyasaland

The following is a list of the contents of a jar containing vials of tick eggs. All collection data are taken directly from the vial label and only the species determination of the tick is updated.

N 243 Argas persicus

Kasuli, Punjab, India

20.XII.1906

Capt. E.D.W. Greig

N 306 Boophilus decoloratus

Cow (in lab)

Sent from Cape Colony, S. Africa

VII.1907

C. P. Lounsbury

N 359 Ornithodoros moubata

School of Trop. Med.

Liverpool, England

IV.1907

Mr. Newstead

- N 406 Hyalomma sp.
Pretoria, Transvaal, South Africa
27.I.1908
Dr. A. Theiler
- N 407 Rhipicephalus appendiculatus
Pretoria, Transvaal, South Africa
27.I.1908
Dr. A. Theiler
- N 676 Boophilus decoloratus
Cattle
Chintechi, W. Nyasa Dist., Nyasaland
X.1908
Dr. H. Hearsey
- N 1304 Ixodes lividus
Sand Martin's nest
River Severn, Shrewsbury, England
29.VI.1911
R.F.L. Burton
- N 1305b Rhipicephalus bursa (2 vials)
Sheep
Hammam Muskoutine, Algeria
11.VI.1911
Paul Dechabert

- N 1307h Ixodes uriae
Guillemot nests
Worms Head, Gower,
Glamorganshire, S. Wales
2.VII.1911
G.H.F. Nuttall
- N 1658 Boophilus annulatus
Cattle
Dallas, Texas
13.V.1912
F. C. Bishopp
- N 1703 Ixodes uriae
Pitton, Gower
Glamorganshire, S. Wales
3-4.VII.1912
George Williams
- N 1731 Dermacentor andersoni
Horses (original parents)
Yakima, Washington
V.1912
Dr. C. Gordon Hewitt

- N 1732 Amblyomma hebraeum
Pretoria, S. Africa
20.VII.1912
C. P. Lounsbury
- N 1737 Haemaphysalis leachi
Jackal (parent)
Nairobi, B.E. Africa
23.III.1912
R. E. Montgomery
- N 1932 Rhipicephalus sanguineus
Dogs
Kasauli, Punjab, India
X.1912
C. D. Mackey
- N 2149 Rhipicephalus appendiculatus (2 vials)
Cape Colony, S. Africa
10.XI.1910
C. P. Lounsbury
- N 2452 Haemaphysalis chordeilis
Cattle
Manitoba, Canada
IX.1913
N. Harrison

- N 2695 Rhipicephalus sanguineus
Dogs
Madras, W. India
W. Rae Sheniffs
- N 2703 Amblyomma rotundatum
Toad
Rio de Janeiro, Brazil
8.I.1914
Dr. H. deB. Aragão
- N 2937 Dermacentor variabilis
Winnepeg, Canada
21.VII.1914
J.R.N. Harrison
- No N Ornithodoros savignyi (4 eggs)
number Raised in my lab by
 G. Merriman ca. 1912
- No N Ornithodoros moubata (55 eggs)
number Dissected out of ♀
- No N Amblyomma hebraeum
number 25.V.1905 boiled, placed
 in 70% alcohol 11.X.1905

1696

No N Hyalomma sp.

number Raised in Cambridge

Measured fresh 0.75-0.5

May 30, 1912

REFERENCES

- Anonymous. 1909. African entomological research. Lancet 2: 878-879.
- Arthur, D. R. 1952. Ixodes frontalis Panzer, 1795. A review of the species. Parasitology, Cambridge 52: 151-154.
- _____. 1953. The systematic status of Ixodes percavatus var. rothschildi Nuttall & Warburton, 1911. Parasitology, Cambridge 43: 222-226.
- _____. 1955. New species of ticks (Ixodes) associated with small mammals. Parasitology, Cambridge 45: 131-140.
- _____. 1957a. The Ixodes schillingsi group: Ticks of Africa and Madagascar, parasitic on primates, with descriptions of two new species (Ixodoidea, Ixodidae). Parasitology, Cambridge 47: 544-559.
- _____. 1957b. Studies on exotic Ixodes ticks (Ixodoidea, Ixodidae) from United States Navy and Army activities. J. Parasit. 43: 681-694.
- _____. 1958. New species of Ixodes ticks from eastern Africa, with a description of the male and nymph of Ixodes oldi Nuttall, 1913. Parasitology, Cambridge 48: 38-69.
- _____. 1960a. A review of some ticks (Acarina-Ixodidae) of sea birds. Part II. The taxonomic problems associated with the Ixodes auritulus-percavatus group of species. Parasitology, Cambridge 50: 199-226.
- _____. 1960b. The genera Dermacentor, Anocentor, Cosmiomma, Boophilus, & Margaropus. Ticks. A monograph of the Ixodoidea. Part V. Cambridge.
- _____. 1963. British Ticks. London.
- _____. 1965. Ticks of the genus Ixodes in Africa. London.
- _____. & Burrow, C. 1957. The Ixodes rarus group of African ticks with descriptions of four new species (Ixodoidea, Ixodidae). Bull. Mus. comp. Zool. Harv. 116: 493-537.

- Banks, N. 1908. A revision of the Ixodoidea, or ticks of the United States. Tech. Ser. Bur. Ent. U.S. Dept. Agric., (15), 61 p.
- Bequaert, J. 1930. Ticks collected by the American Museum Congo Expedition 1909-1915, with notes on the parasites and predaceous enemies of these arthropods. Am. Mus. Novit. (426): 1-12.
- Birula, A. 1895. Ixodidae novi vel paucum cogniti Musei Zoologici Academiae Caesareae Scientiarum Petropolitanae. I. Izv. Imp. Akad. Nauk, Ser. 5. 2: 353-364.
- Bishopp, F. C. 1911. Some new North American Ixodidae with notes on other species. Proc. biol. Soc. Wash. 24: 197-208.
- Buxton, P. A. 1924. Applied entomology of Palestine, being a report to the Palestine Government. Bull. ent. Res. 14: 289-340.
- Cabrera, A. 1957, 1960. Catalogo de los mamiferos de American del Sur. Buenos Aires.
- Chilton, C. 1904. A species of Ixodes parasitic on the grey duck. Trans. Proc. N. Z. Inst. 26, n.s. 19: 201-202.
- Clifford, C. M. & Anastos, G. 1962. Ticks. Explor. Parc. natn. Upemba Miss. G. F. de Witte (1946-49), fasc. 66, 45 p.
- _____, Keirans, J. E. & Hoogstraal, H. 1971. Ixodes (Ixodes) nuttallianus Schulze: Redescription of female, description of male, and hosts and ecology in Nepal (Acarina: Ixodidae). J. med. Ent. 8: 439-442.
- _____, Walker, J. B. & Keirans, J. E. 1983. Clarification of the status of Rhipicephalus kochi Dönitz, 1905 (Ixodoidea, Ixodidae). Onderstepoort J. vet. Res. 50: 77-89.
- Cooley, R. A. 1934. A search for tick parasites in South Africa. Onderstepoort J. vet. Sci. Anim. Ind. 3: 23-42.

- _____, & Kohls, G. M. 1945. The genus Ixodes in North America. Natn. Inst. Hlth. Bull. (184): 1-246.
- Cooper, W. F. & Robinson, L. E. 1908. On six new species of Ixodidae, including a second species of the new genus Rhipicentor. Proc. Camb. phil. Soc. math. phys. Sci. 14: 457-470.
- Corbet, G. B. 1975. Finding and identifying mammals in Britain. London.
- _____. 1978. The mammals of the Palearctic region: a taxonomic review. London.
- Cross, H. E. & Patel, P. G. 1921. A note on the transmission of surra by ticks. Vet. Bull. Dep. Agric. Punjab (6): 1-3.
- Cunliffe, N. A. 1914a. Rhipicephalus sanguineus: variation in size and structure due to nutrition. Parasitology, Cambridge 6: 372-378.
- _____. 1914b. Observations on Argas brumpti Neumann 1907. Parasitology, Cambridge 6: 379-381.
- Dhanda, V. 1964. Description of immature stages of Haemaphysalis howletti (Ixodoidea-Ixodidae) and redescription of adults. J. Parasit. 50: 549-565.
- Dönitz W. 1905. Die Zecken des Rindes als Krankheitsübertrager. Sber. Ges. naturf. Freunde Berl. (4): 105-134.
- _____. 1909. Über das Zeckengenue Amblyomma. Sber. Ges. naturf. Freunde Berl. (8): 440-482.
- _____. 1910a. Die Zecken Sudafrikas. Denkschr. med.-naturw. Ges. Jena 16: 397-494.
- _____. 1910b. Zwei neue afrikanische Rhipicephalusarten. Sber. Ges. naturf. Freunde Berl. (6): 276-280.

- Dorst, J. & Dandelot, P. 1970. A field guide to the larger mammals of Africa. London.
- Dugès A. D. 1876. El repertorio de Guanajuato, Mexico. [I have not seen this publication.]
- Dumbleton, L. J. 1943. A new tick from the tuatara (Sphenodon punctatus). N. Z. Jl. Sci. Technol. 24: 185B-190B.
- Edwards, M. & Evans, G. O. 1967. Some observations on the chaetotaxy of the legs of larval Ixodidae (Acari: Metastigmata). J. nat. Hist. 4: 595-601.
- Ellerman, J. R. & Morrison-Scott, T.C.S. 1951. Checklist of Palearctic and Indian mammals 1758 to 1946. London.
- Feldman-Muhsam, B. 1956. The value of the female genital aperture and the peristigmal hairs for specific diagnosis in the genus Rhipicephalus. Bull. Res. Coun. Isreal Sect. B. 5B: 300-307.
- Gamble, M. 1914. A list of blood-sucking arthropods from the lower Congo, with a vocabulary. J. trop. Med. Hyg. 17: 148-150.
- Garnham, P.C.C. 1979. Centenary biographical note. Charles Morley Wenyon, 1878-1948. Int. J. Parasit 9: 83-84.
- George, R. S. 1981. Obituary Gordon Burnett Thompson, 1911-1979. Entomologist's mon. Mag. 117: 87-88.
- G[raham]-S[mith], G. S. & K[eilin], D. 1938. George Henry Falkiner Nuttall 1862-1937. Parasitology, Cambridge 30: 403-418.
- Hadwen, S. & Nuttall, G.H.F. 1913. Experimental "tick paralysis" in the dog. Parasitology, Cambridge 6: 298-301.
- Hase, A. 1950. Paul Schulze. Z. Parasitenk. 14: 423-425.

- Hindle, E. & Cunliffe, N. 1914. Regeneration in Argas persicus. Parasitology, Cambridge 6: 353-371.
- Hirst, S. 1914. Report on the Arachnida and Myriopoda collected by the British Ornithologists' Union Expedition and the Wollaston Expedition in Dutch New Guinea. Trans. zool. Soc. Lond. 20: 325-334.
- Hoogstraal, H. 1953. Ticks (Ixodoidea) of the Malagasy faunal region (excepting the Seychelles). Their origins and host-relationships; with descriptions of five new Haemaphysalis species. Bull. Mus. comp. Zool. Harv. 111: 37-133.
- _____ 1954a. A preliminary, annotated list of ticks (Ixodoidea) of the Anglo-Egyptian Sudan. J. Parasit. 40: 304-310.
- _____ 1954b. Noteworthy African tick records in the British Museum Natural History) collections (Ixodoidea). Proc. ent. Soc. Wash. 56: 273-279.
- _____ 1955a. Notes on African Haemaphysalis ticks. II. The ground squirrel parasites, H. calcarata Neumann, 1902, and H. houyi Nuttall and Warburton, 1915 (Ixodoidea, Ixodidae). J. Parasit. 41: 361-373.
- _____ 1955b. Bat ticks of the genus Argas (Ixodoidea, Argasidae).
1. The subgenus Chiropterargas. Fieldiana. Zool. 37: 579-600.
- _____ 1955c. Notes on African Haemaphysalis ticks. I. The Mediterranean-littoral hedgehog parasite H. erinacei Pavesi, 1884 (Ixodoidea, Ixodidae). J. Parasit. 41: 221-223.
- _____ 1956a. African Ixodoidea. 1. Ticks of the Sudan (with special reference to Equatorial Province and with preliminary reviews of the genera Boophilus, Margaropus and Hyalomma). Dep. Navy Bur. Med. Surg.: Washington, D.C. 1101 p.

_____ 1956b. Notes on African Haemaphysalis ticks. III. The hyrax parasites, H. bequaerti sp. nov., H. orientalis N. and W., 1915 (new combination), and H. cooleyi Bedford, 1929 (Ixodoidea, Ixodidae). J. Parasit. 42: 156-172.

_____ 1961. Redescription of Haemaphysalis (Alloceraea) inermis aponommoides Warburton, 1913 (Ixodoidea, Ixodidae). J. Parasit. 47: 317-318.

_____ 1962a. Haemaphysalis nepalensis sp. n. from a Himalayan rodent and man, and description of the male of H. aponommoides Warburton (n. comb.), (Ixodoidea, Ixodidae). J. Parasit. 48: 195-203.

_____ 1962b. Rediscovery, redescription, and relationships of Haemaphysalis vidua Warburton and Nuttall, 1909 (Ixodoidea, Ixodidae) from Malaya. J. Parasit. 48: 419-722.

_____ 1964a. Studies on southeast Asian Haemaphysalis ticks (Ixodoidea, Ixodidae). Redescription, hosts, and distribution of H. traguli Oudemans. The larva and nymph of H. vidua W. and N. Identity of H. papuana toxopei Warburton (new combination). J. Parasit. 50: 765-782.

_____ 1964b. Notes on African Haemaphysalis ticks. VI. H. spinulosa Neumann, and its relation to biological and nomenclatorial problems in the H. leachii group of Africa and Asia (Ixodoidea, Ixodidae). J. Parasit. 50: 786-791.

_____ 1966. Haemaphysalis (Allophysalis) pospelovashtromae sp. n. from USSR and redescription of the type material of H. (A.) warburtoni Nuttall from China (Ixodoidea: Ixodidae). J. Parasit. 52: 787-800.

_____ 1970a. Identity, distribution, and hosts of Haemaphysalis (Rhipistoma) indica Warburton (Resurrected) (Ixodoidea: Ixodidae), a carnivore parasite of the Indian subregion. J. Parasit. 56: 1013-1022.

_____ 1970b. Haemaphysalis (H.) birmaniae Supino and H. (H.) goral sp. n. (Ixodoidea: Ixodidae), Asian parasites of artiodactyl mammals. J. Parasit. 56: 1227-1238.

_____ 1970c. Human infestation by ticks (Ixodidae) in the Himalaya. In: H. D. Srivastava commemoration volume, Singh & Tandan eds. Div. Parasit. Indian Vet. Res. Inst., Izatnagar, India, p. 75-89.

_____ 1971a. Haemaphysalis (H.) sambar sp. n. (Ixodoidea: Ixodidae), a parasite of the sambar deer in southern India. J. Parasit. 57: 173-176.

_____ 1971b. Haemaphysalis (Kaiseriana) borneata sp. n. (Ixodoidea: Ixodidae), a tick of the H. (K.) aculeata group parasitizing the sambar deer in Borneo. J. Parasit. 57: 1096-1098.

_____ & Dhanda, V. 1970. Haemaphysalis (H.) darjeeling sp. n., a member of the H. (H.) birmaniae group (Ixodoidea: Ixodidae) parasitizing artiodactyl mammals in Himalayan forests of India, and in Burma and Thailand. J. Parasit. 56: 169-174.

_____ & El Kammah, K. M. 1972. Notes on African Haemaphysalis ticks, X. H. (Kaiseriana) aciculifer Warburton and H. (K.) rugosa Santos Dias, the African representatives of the spinigera subgroup (Ixodoidea: Ixodidae). J. Parasit. 58: 960-978.

_____ & Kaiser, M. N. 1959. Observations on Egyptian Hyalomma ticks (Ixodoidea; Ixodidae). 5. Biological notes and differences in identity of H. anatolicum and its subspecies anatolicum Koch and excavatum Koch among Russian and other workers. Identity of H. lusitanicum Koch. Ann. ent. Soc. Am. 52: 243-261.

_____ 1960. Observations on ticks (Ixodoidea) of Libya. Ann. ent. Soc. Am. 53: 445-457.

_____ & Santana, F. J. 1974. Haemaphysalis (Kaiseriana) mageshimaensis (Ixodoidea: Ixodidae): human and wild and domestic mammal hosts, and distribution in Japan, Taiwan, and China. J. Parasit. 60: 866-869.

_____ & Trapido, H. 1963a. Haemaphysalis kutchensis sp. n., a common larval and nymphal parasite of birds in Northwestern India (Ixodoidea: Ixodidae). J. Parasit. 49: 489-497.

_____ 1963b. Redescription of cotypes and all stages of Haemaphysalis intermedia Warburton & Nuttall, 1909. (= H. parva Neumann, 1908, preoccupied) from Ceylon and India (Ixodoidea: Ixodidae). J. Parasit. 59: 838-846.

_____ 1966a. Studies on Southeast Asian Haemaphysalis ticks (Ixodoidea: Ixodidae). Species described by Supino in 1897 from Burma, with special reference to H. (Rhipistoma) asiaticus (= H. dentipalpis Warburton & Nuttall). J. Parasit. 52: 1172-1187.

_____ 1966b. Redescription of the type materials of Haemaphysalis (Kaiseriana) bispinosa Neumann (India), H. (K.) neumanni Dönitz (Japan), H. (K.) lagrangei Larrousse (Vietnam), and H. (K.) yeni Toumanoff (Vietnam) (Ixodoidea, Ixodidae). J. Parasit. 52: 1188-1198.

_____ & Wassef, H. Y. 1981. Haemaphysalis (Garnhamphysalis) subgen. nov. (Acarina: Ixodidae): Candidate tick vectors of Hematozoa in the Oriental Region. J. Protozool. (Garnham Festschrift) Special Pub. 1: 117-124.

_____ 1982. Haemaphysalis (Garnhamphysalis) mjoebergi: identity, structural variation and biosystematic implications, deer hosts, and distribution in Borneo and Sumatra (Ixodoidea: Ixodidae). J. Parasit. 68: 138-144.

_____ Clifford, C. M. & Keirans, J. E. 1979. The Ornithodoros (Alectorobius) capensis group (Acarina: Ixodoidea: Argasidae) of the Palearctic and Oriental regions. O. (A.) coniceps identity, bird and mammal hosts, virus infections, and distribution in Europe, Africa, and Asia. J. Parasit. 65: 395-407.

_____ Lim, L., & Anastos, G. 1969. Haemaphysalis (Kaiseriana) bispinosa Neumann (Ixodoidea: Ixodidae): Evidence for consideration as an introduced species in the Malay Peninsula and Borneo. J. Parasit. 55: 1075-1077.

_____ Trapido, H. & Kohls, G. M. 1965a. Studies on Southeast Asian Haemaphysalis ticks (Ixodoidea: Ixodidae). The identity, distribution, of H. antherurus sp. n. and redescription of type material of H. birmaniae Supino, 1897 and hosts of H. (Kaiseriana) hystricis Supino. J. Parasit. 51: 114-125.

_____ 1965b. Studies on Southeast Asian Haemaphysalis ticks (Ixodoidea: Ixodidae). H. (Kaiseriana) papuana nadchatrami spp. n. and redescription of H. (K.) sermermis Neumann. J. Parasit. 51: 433-451.

_____ 1965c. Studies on Southeast Asian Haemaphysalis ticks (Ixodoidea: Ixodidae). The identity, distribution, and hosts of H. (Kaiseriana) hystricis Supino. J. Parasit. 51: 467-480.

_____ 1965d. Studies on Southeast Asian Haemaphysalis ticks (Ixodoidea: Ixodidae). H. (Kaiseriana) celebensis sp. n., from a wild boar in Celebes. J. Parasit. 51: 1001-1003.

_____ 1966. Studies on Southeast Asian Haemaphysalis ticks (Ixodoidea: Ixodidae). Speciation in the H. (Kaiseriana) obesa group: H. semermis Neumann, H. obesa Larrousse, H. roubaudi Toumanoff, H. montgomeryi Nuttall, and H. hirsuta sp. n. J. Parasit. 52: 169-191.

_____ & Rebello, M. J. 1963. Haemaphysalis paraturturis sp. n., a carnivore parasite of the H. turturis group in India (Ixodoidea, Ixodidae). J. Parasit. 49: 686-691.

- _____. Wassef, H. Y. & Uilenberg, G. 1974. Haemaphysalis (Elongphysalis) elongata Neumann, subgen. n. (Ixodoidea: Ixodidae): structural variation, hosts, and distribution in Madagascar. J. Parasit. 60: 480-498.
- _____. Carney, W. P., Kadarson, S. & Van Peenen, P.F.D. 1973a. Haemaphysalis (Kaiseriana) celebensis Hoogstraal, Trapido, and Kohls (Ixodoidea: Ixodidae), a Wallacean member of the hystricis group: Identity, distribution, hosts, and ecology. J. Parasit. 59: 556-562.
- _____. El Kammah, K. M., Santana, F. J., & Van Peenen, P. F. D. 1973b. Studies on Southeast Asian Haemaphysalis ticks (Ixodoidea: Ixodidae). H. (Kaiseriana) lagrangei Larrousse: Identify, distribution, and hosts. J. Parasit. 59: 118-129.
- _____. Roberts, F.H.S., Kohls, G. M. & Tipton, V. J. 1968. Review of Haemaphysalis (Kaiseriana) longicornis Neumann (resurrected) of Australia, New Zealand, New Caledonia, Fiji, Japan, Korea, and Northeastern China and U.S.S.R., and its parthenogenetic and bisexual populations (Ixodoidea: Ixodidae). J. Parasit. 54: 1197-1213.
- _____. Wassef, H., Converse, H. Y., Keirans, J. E., Clifford, C. M., & Feare, C. F. 1976. Amblyomma loculosum (Ixodoidea: Ixodidae): identity, marine bird and human hosts, virus infection, and distribution in the southern oceans. Ann. ent. Soc. Am. 69: 3-14.
- Howard, C. W. 1909. A new species of Haemaphysalis from East Africa. Ann. Transv. Mus. 1: 219-223.
- Jordan, K. 1928. Siphonaptera collected during a visit to the eastern United States of North America in 1927. Novit. zool. 34: 178-188.
- Kaiser, M. N. & Hoogstraal, H. 1964. The Hyalomma ticks (Ixodoidea: Ixodidae) of Pakistan, India, and Ceylon with keys to subgenera and species. Acarologia 6: 247-286.

Kaufman, T. 1972. A revision of the genus Aponomma Neumann, 1899 (Acarina: Ixodidae) Ph.D. thesis University of Maryland ix + 389 pp.

Keirans, J. E. 1976. Dermacentor venustus Marx ms. in Neumann, 1897: Proposed suppression under the plenary powers so as to conserve Dermacentor andersoni Stiles, 1908 (Acarina: Ixodidae). Bull. zool. Nom. 32: 261-264.

_____ 1982. The tick collection (Acarina: Ixodoidea) of the Hon. Nathaniel Charles Rothschild deposited in the Nuttall and general collections of the British Museum (Natural History). Bull. Br. Mus. nat. Hist. (Zool.) 42: 1-36.

_____ & Brewster, B. E. 1981. The Nuttall and British Museum (Natural History) tick collections: Lectotype designations for ticks (Acarina: Ixodoidea) described by Nuttall, Warburton, Cooper, and Robinson. Bull. Br. Mus. nat. Hist. (Zool.) 41: 153-178.

_____ & Clifford, C. M. 1978. The genus Ixodes in the United States: a scanning electron microscope study and key to the adults. J. med. Ent. Suppl. No. 2, 149 p.

_____ & Walker, J. B. 1982. The Ixodes (Afrixodes) oldi group (Acari: Ixodidae) from sub-saharan Africa with descriptions of five new species. J. med. Ent. 19: 309-329.

_____, Hoogstraal, H. & Clifford, C. M. 1973. The Amblyomma (Acarina: Ixodidae) parasitic on giant tortoises (Reptilia: Testudinidae) of the Galapagos Islands. Ann. ent. Soc. Am. 66: 673-688.

King, H. H. 1911. Report of the entomological section of the Wellcome Tropical Research Laboratories. Rept. Wellcome trop. Res. Labs. 4B: 95-150.

Kohls, G. M. 1961. Rediscovery of Haemaphysalis mjöbergi Warburton, 1926. (Acarina: Ixodidae). Pacif. Insects 3: 305-306.

- Larrousse, F. 1923. Présence au Kef (Tunisie) d'une nouvelle espèce du genre Ornithodoros: O. normandi n. sp. Annls Parasit. hum. comp. 1: 170-177.
- _____ 1925. Contribution a l'etude des tiques de l'Annam; description de deux espèces nouvelles du genre Haemaphysalis: H. obesa n. sp. et H. lagrangei n. sp. Annls Parasit. hum. comp. 3: 301-305.
- Lavarra, L. 1904. Sopra una nuova specie di Haemaphysalis. Boll. Soc. zool. ital. 5: 255-258.
- Lewis, E. A. 1933. Rhipicephalus ayrei n. sp. (a tick) from Kenya Colony. Parasitology, Cambridge 25: 269-272.
- Marchoux, E. & Salembeni, A. 1903. La spirillose des poules. Ann. Inst. Pasteur 17: 569-580.
- Matheson, R. 1931. Note on the tick Ornithodoros talaje (Guer.-Men.). Parasitology, Cambridge 23: 270.
- _____ 1935. Three new species of ticks, Ornithodoros (Acarina, Ixodoidea). J. Parasit. 21: 347-353.
- Matthews, L. H. & Hobson, A. D. 1922. The pigeon tick. Nature, Lond. 110: 313.
- Mattingly, P. 1976. Amedeo John Terzi 1872-1956. Mosquito Syst. 8: 114-120.
- Meester, J. & Setzer, H. W. (eds.) 1971. The mammals of Africa: an identification manual. Washington.
- Merriman, G. 1911. The geographical distribution of Ornithodoros moubata Murray, (1877). Parasitology, Cambridge 4: 168-173.
- Merwe, S. van der. 1968. Some remarks on the "tampans" of the Ornithodoros moubata complex in Southern Africa. Zool. Anz. 181: 280-289.

Mettam, R.W.M. 1933. Annual report, 1932, of the veterinary pathologist, Entebbe. Rept. vet. Dept. Uganda (1932): 21-37.

Moritz, M. & Fischer, S.-C. 1981. Die Typen der Arachniden-Sammlung des Zoologischen Museums Berlin IV. Ixodei. Mitt. Zool. Mus. Berl. 57: 341-364

Neumann, L. G. 1897. Révision de la famille des Ixodidés. (2^e mémoire) Mém. Soc. zool. Fr. 10: 324-422.

_____ 1899. Révision de la famille des Ixodidés. (3^e mémoire). Mém. Soc. zool. Fr. 12: 107-373.

_____ 1901. Révision de la famille des Ixodidés. (4^e mémoire). Mém. Soc. zool. Fr. 14: 249-372.

_____ 1902. Notes sur les Ixodidés. Archs Parasit. 6: 109-128.

_____ 1904. Notes sur les Ixodidés. II. Archs Parasit. 8: 444-464.

_____ 1905. Notes sur les Ixodidés. III. Archs Parasit. 9: 225-241.

_____ 1906. Notes sur les Ixodidés. IV. Archs Parasit. 10: 195-219.

_____ 1907. Description of two new species of African ticks. Ann. trop. Med. Parasit. 1: 115-120.

_____ 1908a. Notes sur les Ixodidés. VII. Notes Leyden Mus. 30: 73-91.

_____ 1908b. A new species of tick from Transvaal. Ann. Transv. Mus. 1: 170-172.

_____ 1910a. Description de deux nouvelles espèces d'Ixodinae. Tijdschr. Ent. 53: 11-17.

- _____ 1910b. Sur quelques especes d'Ixodidae nouvelles ou insuffisamment connues. Annls Sci. nat. 12: 161-176.
- _____ 1913. Pediculidae, Siphonaptera, Ixodidae. Ent. Mitt., 2 Supp. Ent., (2): 134-137.
- Nuttall, G.H.F. 1910. New species of ticks (Ixodes, Amblyomma, Rhipicephalus). Parasitology, Cambridge 3: 408-416.
- _____ 1911. Notes on ticks. I. (1) Ixodes calendonius, description of male, together with considerations regarding the structures of the foot in male Ixodes, (2) Types of parasitism in ticks, illustrated by a diagram, together with some remarks upon longevity in ticks, (3) Regarding the loss of life in ticks occurring on wandering hosts. Parasitology, Cambridge 4: 175-182.
- _____ 1912. Notes on ticks. II. (1) new species (Amblyomma, Haemaphysalis). (1) Ixodes putus: Description of the hitherto unknown larval stage. Parasitology, Cambridge 5: 50-60.
- _____ 1913a. In Memoriam. Wilhelm Donitz. Parasitology, Cambridge 5: 261-263.
- _____ 1913b. Notes on ticks. III. On four new species of Ixodes. Parasitology, Cambridge 6: 131-138.
- _____ 1913c. Note on colouration in ticks. Parasitology, Cambridge 6: 49-51.
- _____ 1913d. Observations on the biology of Ixodidae. Part I. Parasitology, Cambridge 6: 68-118.
- _____ 1913e. Rhipicephalus appendiculatus. Variation in size and structure due to nutrition. Parasitology, Cambridge 6: 195-203.

_____ 1914a. Tick abnormalities. Parasitology, Cambridge 7: 250-257.

_____ 1914b. Penetration of Ixodes beneath the skin. Parasitology, Cambridge 7: 258-259.

_____ 1915. Observations on the biology of Ixodidae. Part II. Parasitology, Cambridge 7: 408-456.

_____ 1916. Notes on ticks. IV. Relating to the genus Ixodes and including a description of three new species and two new varieties. Parasitology, Cambridge 8: 294-337.

_____ 1919. Observations on the biology of the Ixodidae. Part III. Dealing with the behaviour of the sexes in Amblyomma hebraeum, Hyalomma aegyptium and Rhipicephalus bursa when upon the host. Parasitology, Cambridge 11: 393-404.

_____ 1920. On coloration in ticks. II. Parasitology, Cambridge 12: 1-6.

_____ 1929. Philip Hedgeland Ross. Lancet 217, v. 2 (24): 1284.

_____ & Warburton, C. 1908. On a new genus of Ixodoidea together with a description of eleven new species of ticks. Proc. Camb. phil. Soc. math. phys. Sci. 14: 392-416.

_____ 1911. Section II. The genus Ixodes, in Nuttall, et al. Ticks. A monograph of the Ixodoidea. Part II. Cambridge.

_____ 1915. The genus Haemaphysalis. In Nuttall, et al. Ticks. A monograph of the Ixodoidea. Part III. Cambridge.

_____ 1916. Ticks of the Belgian Congo and the diseases they convey. Bull. ent. Res. 6: 313-352.

- _____ Cooper, W. F. & Robinson, L. E. 1908b. The structure and biology of Haemaphysalis punctata Canestrini and Fanzago. I. Parasitology, Cambridge 1: 152-181.
- _____ Warburton, C., Cooper, W. F., & Robinson, L. E. 1908a. Ticks. A monograph of the Ixodoidea, Part I. Cambridge.
- Old, J.E.S. 1909. Contribution to the study of trypanosomiasis and to the geographical distribution of some of the blood sucking insects, etc. J. trop. Med. Hyg. 12: 15-22.
- Peters, J. L. 1931-1979. Checklist of birds of the world. Vols. I-X, XII-XV. Cambridge.
- Ride, W.D.L. 1970. A guide to the native mammals of Australia. Melbourne.
- Roberts, F.H.S. 1960. A systematic study of the Australian species of the genus Ixodes (Acarina: Ixodidae). Aust. J. Zool. 8: 392-485.
- _____ 1963. A systematic study of the Australian species of the genus Haemaphysalis Koch (Acarina: Ixodidae). Aust. J. Zool. 11: 35-80.
- _____ 1970. Australian Ticks. Commonwealth Scientific and Industrial Research Organization, Australia, Melbourne.
- Robinson, L. E. 1912. New species of the ticks (Haemaphysalis, Amblyomma). Parasitology, Cambridge 4: 478-484.
- _____ 1920. Malformation in ticks. Parasitology, Cambridge 12: 175.
- _____ 1926. The genus Amblyomma. In Nuttall et al., Ticks. A Monograph of the Ixodoidea. Part IV. Cambridge.
- Russell, L. M. 1978. Leland Ossian Howard: A historical review. A. Rev. Ent. 23: 1-15.

Santos Dias, J.A.T. 1956. Notas ixodologicas. I. Sobre duas entidades do genero Haemaphysalis C. L. Koch, 1844. Mems. Estud. Mus. zool. Univ. Coimbra (242): 1-9.

_____ 1958. Notes on various ticks (Acarina: Ixodoidea) in collection of some entomological institutes in Paris and London. Anais Inst. Med. trop., Lisb. 15: 459-563.

Schulze, P. 1918. Ein Beitrag zur Zeckenfauna Mazedoniens. Sber. Ges. naturf. Freunde Berl. (1-2): 61-66.

_____ 1919. Bestimmungstabelle fur das Zeckengenus Hyalomma Koch. Sber. Ges. naturf. Freunde Berl. 5: 189-196.

Sharif, M. 1928. A revision of the Indian Ixodidae with special reference to the collection in the Indian Museum. Rec. Indian Mus. 30: 217-344.

Shipley, A. E. 1910. Foreword. Bull. ent. Res. 1: 1-6.

Stiles, C. W. 1910. The taxonomic value of the microscopic structure of the stigmal plates in the tick genus Dermacentor. Bull. hyg. Lab. Wash. (62): 1-72.

Supino, F. 1897. Nuovi Ixodes della Birmania (Nota preventiva). Atti. Soc. ven.-trent. sci. 3: 230-238.

Taylor, F. H. 1946. Spiders, ticks, and mites including the species harmful to man in Australia and New Guinea. Section 1. Descriptive. Serv. Publs. Sch. publ. Hlth. trop. Med. Univ. Sydney (6): 7-234.

Theiler, G. & Salisbury, L. E. 1959. Ticks in the South African zoological survey collection. Part IX. "The Amblyomma marmoreum group." Onderstepoort J. vet. Res. 28: 47-124.

- Thompson, G. B. 1957. The parasites of British birds and mammals - XXXI. Summary of the records of ticks of sea-birds. Entomologist's mon. Mag. 93: 213-216.
- _____. 1967. The parasites of British birds and mammals - XLII. The sand-martin tick - Ixodes lividus (C. L. Koch, 1844) (Ixodoidea). Entomologist's mon. Mag. 102: 106-109.
- _____. 1968. The parasites of British birds and mammals - XLIV. Summary of records of Ixodes (Exopalgiger) trianguliceps (Birula, 1895) (Ixodoidea). Entomologist's mon. Mag. 103: 146-152.
- _____ & Knowles, R. J. 1968. Records of Ixodoidea (ticks) from Essex. Essex Nat. 32: 193-196.
- Townsend, C. H. T. 1913. Progress in the study of Verruga transmission by blood-suckers. Bull. ent. Res. 4: 125-128.
- Trapido, H. 1965. Notes on critical Asian Haemaphysalis specimens in European museum collections with designations of lectotypes and a neotype. Proc. ent. Soc. Wash. 67: 152-165.
- _____ Hoogstraal, H. & Varma, M.G.R. 1964a. Status and descriptions of Haemaphysalis p. papuana Thorell (n. comb.) and of H. papuana kinneari Warburton (n. comb.) (Ixodoidea: Ixodidae) of southern Asia and New Guinea. J. Parasit. 50: 172-188.
- _____ Varma, M.G.R., Rajagopalan, P. K., Singh, K.R.P. & Rebello, M. J. 1964b. A guide to the identification of all stages of the Haemaphysalis ticks of south India. Bull. ent. Res. 55: 249-270.
- Walker, J. B. 1956. Rhipicephalus pravus Donitz, 1910. Parasitology, Cambridge 46: 243-260.

- Wall, F. 1921. Ophidia Taprobanica or the Snakes of Ceylon. Colombo.
- Walton, G. A. 1962. The Ornithodoros moubata superspecies problem in relation to human relapsing fever epidemiology. Symp. zool. Soc. Lond. (6): 83-156.
- Warburton, C. 1908. On some new and obscure species of the genus Haemaphysalis of the Ixodidae. Proc. Camb. phil. Soc. math. phys. Sci. 14: 508-519.
- _____ 1912. Notes on the genus Rhipicephalus, with the description of new species, and the consideration of some species hitherto described. Parasitology, Cambridge 5: 1-20.
- _____ 1918. Notes on Ticks. Being descriptions of two new species of Ornithodoros and of the hitherto unknown female of Hyalomma monstrosum. Parasitology, Cambridge 10: 284-287.
- _____ 1926. On three new species of ticks (Arachnida, Ixodoidea). Ornithodoros gurneyi, Ixodes arvicolae, and Haemaphysalis mjobergi. Parasitology, Cambridge 18: 55-58.
- _____ 1927. On five new species of ticks (Arachnida: Ixodoidea). Ornithodoros nattereri, Ixodes theodori, Haemaphysalis toxopei, Amblyomma robinsoni and A. dammermani, with a note on the ornate nymph of A. latum. Parasitology, Cambridge 19: 405-410.
- _____ & Nuttall, G.H.F. 1909. On new species of Ixodidae, with a note on abnormalities observed in ticks. Parasitology, Cambridge 2: 57-76.
- Wheler, E. G. 1906. British ticks. J. agric. Sci., Camb. 1: 400-429.
- Whittick, R. J. 1939. On some ticks belonging to the genera Aponomma and Amblyomma. Parasitology, Cambridge 31: 434-441.

- Willcocks, F. C. 1922. Acarina. In: A survey of the more important economic insects and mites of Egypt. Tech. Bull. Sultanic agric. Soc. (1): 427-432.
- Yakimov, V. L. & Kol-Yakomova, N. K. 1911. Etude des Ixodidés de Russie. Archs Parasit. 14: 416-425.
- Yeoman, G. H. & Walker, J. B. 1967. The Ixodid Ticks of Tanzania. Commonwealth Institute of Entomology, London.
- Zumpt, F. 1952. The ticks of sea birds. Aust. nat. Antarctic res. Rep. (Ser. B) 1: 12-20.

Appendix I

List of Type Specimens in the Nuttall Tick Collection

Professor Nuttall, being a meticulous researcher, would customarily place blue "type" or "cotype" labels in vials containing the type specimen(s) of tick species, whether described by himself, coworkers at Cambridge, or foreign investigators. Keirans and Brewster (1981) discussed the type status of species described by Nuttall and his coworkers. There remain, however, certain problem areas. Matheson (1935) described three species of Ornithodoros, types of which may or may not be represented in the Nuttall collection (N3966, N3967, N3968). There are

neither blue "type" or "cotype" labels in the vials containing the ticks nor any indication in the catalogue or on the vial labels that these are type specimens. Also, Matheson (op. cit.) stated that all specimens were deposited in the Cornell University collection. Nevertheless, most of the collecting data accompanying these specimens agree with data published by Matheson. The exact status of these Ornithodoros specimens remains moot.

The following is a listing of the 160 tick species that are represented in the Nuttall tick collection by one or more type specimens. I am reasonably certain that specimens represented here have valid type status and that the list is relatively complete.

ARGASIDAE

- N 975, Argas confusus Hoogstraal, 1955. Fieldiana: Zool. 37: 586,
N 3716 figs 126-131.
- N 3768 Argas papillipes Birula, 1895. Izv. Imp. Akad. Nauk 2: 354,
pl. 1, figs 4-6.
- N 1243 Argas reflexus indicus Warburton, 1910. Parasitology Cambridge
3: 396.
- N 3562 Ornithodoros gurneyi Warburton, 1926. Parasitology, Cambridge
18: 55, fig. 1.
- N 3545,a Ornithodoros normandi Larrousse, 1923. Annls Parasit. hum. comp.
1: 170, figs 1-4.
- N 3335 Ornithodoros piriformis Warburton, 1918. Parasitology, Cambridge
10: 285, fig. 2.
- N 348 Ornithodoros turicata Dugès, 1876. Rept. de Guanajuato, Mexico
14: 1, figs 1-8.

IXODIDAE

- N 2866 Amblyomma albopictum Neumann, 1899. Mém. Soc. zool. Fr. 12: 244.
- N 1106 Amblyomma annandalei Warburton, 1910. Parasitology, Cambridge
3: 403, fig. 8.
- N 2867 Amblyomma argentinae Neumann, 1905. Archs Parasit. 9: 226.
- N 2868 Amblyomma australiense Neumann, 1905. Archs Parasit. 9: 227.
- N 2869 Amblyomma calcaratum Neumann, 1899. Mém. Soc. zool. Fr. 12: 226.
- N 2870 Amblyomma coelebs Neumann, 1899. Mém. Soc. zool. Fr. 12: 223.
- N 2872 Amblyomma concolor Neumann, 1899. Mém. Soc. zool. Fr. 12: 222.
- N 70 Amblyomma cooperi Nuttall & Warburton, 1908. Proc. Camb. phil.
Soc. math. phys. Sci. 14: 410, figs 33-36.
- N 3615 Amblyomma dammermani Warburton, 1927. Parasitology, Cambridge
19: 409, pl. XXVII, fig. 3.

- N 1285, 1286, 1287 Amblyomma darlingi Nuttall, 1912. Parasitology, Cambridge 5: 50, figs 1-4.
- N 2939 Amblyomma fiebrigi Robinson, 1912. Parasitology, Cambridge 4: 482, figs 3, 4.
- N 946 Amblyomma furcula Dönitz, 1909. Sber. Ges. naturf. Freunde Berl. (8): 478.
- N 945 Amblyomma gemma Dönitz, 1909. Sber. Ges. naturf. Freunde Berl. (8): 458.
- N 2873 Amblyomma goeldii Neumann, 1899. Mém. Soc. zool. Fr. 12: 238.
- N 944 Amblyomma lepidum Dönitz, 1909. Sber. Ges. naturf. Freunde Berl. (8): 460, fig. 12.
- N 2940 Amblyomma longirostrum Cooper & Robinson, 1908. Proc. Camb. phil. Soc. math. phys. Sci. 14: 457, figs 1-5.
- N 711 Amblyomma macfarlandi Keirans, Hoogstraal, & Clifford, 1973. Ann. ent. Soc. Am. 66: 677, figs 21-40.
- N 996, 997 Amblyomma nuttalli Dönitz, 1909. Sber. Ges. naturf. Freunde Berl. (8): 469, fig. 4.
- N 565 Amblyomma quasicyprum Robinson, 1926. Ticks. A Monograph of the Ixodoidea Pt. IV: 237, fig. 117.
- N 3617 Amblyomma robinsoni Warburton, 1927. Parasitology, Cambridge 19: 408, pl. XXVII, fig. 1, 2.
- N 2876 Amblyomma scutatum Neumann, 1899. Mém. Soc. zool. Fr. 12: 237.
- N 36 Amblyomma uncatum Nuttall & Warburton, 1908. Proc. Camb. phil. Soc. math. phys. Sci. 14: 412, figs 37-40.
- N 1149 Amblyomma v-notatum Nuttall, 1910. Parasitology, Cambridge 3: 412, fig. 5.

- N 2941 Amblyomma variegatum nocens Robinson, 1912. Parasitology, Cambridge 4: 480, fig. 2.
- N 212 Amblyomma versicolor Nuttall & Warburton, 1908. Proc. Camb. Soc. math. phys. Sci. 14: 407, figs 27-29.
- N 2875 Aponomma draconis Warburton, 1933. Parasitology, Cambridge 24: 564, fig. 7.
- N 2877 Aponomma ecinctum Neumann, 1901. Mém. Soc. zool. Fr. 14: 293.
- N 2878 Aponomma oudemansi Neumann, 1910. Tijdschr. Ent. 53: 11, pl. 1, figs 1, 2.
- N 2879 Aponomma pattoni Neumann, 1910. Ann. Sci. Nat. 12: 163, figs 2, 3.
- N 2943 Aponomma quadratum Cooper & Robinson, 1908. Proc. Camb. phil. Soc. math. phys. Sci. 14: 468, figs 22-24.
- N 2942 Aponomma simplex Cooper & Robinson, 1908. Proc. Camb. phil. Soc. math. phys. Sci. 14: 466, figs 18-21.
- N 2978 Dermacentor asper Arthur, 1960. Ticks, A monograph of the Ixodoidea, Pt. V: 114.
- N 2961 Dermacentor auratus Supino, 1897. Atti Soc. ven.-trent. sci. 3: 235.
- N 3874 Dermacentor imitans Warburton, 1933. Parasitology, Cambridge 24: 559, figs 3, 4.
- N 2969 Dermacentor indicus Supino, 1897. Atti Soc. ven.-trent. sci. 3: 236.
- N 2880 Dermacentor nitens Neumann, 1897. Mém. Soc. zool. Fr. 10: 376, fig. 28.
- N 3213 Dermacentor reticulatus niveus Neumann, 1897. Mém. Soc. zool. Fr. 10: 365.

- N 1981 Haemaphysalis aciculifer Warburton, 1913. Parasitology,
Cambridge 6: 125, figs 4, 5.
- N 2625 Haemaphysalis aciculifer rugosa Santos Dias, 1956. Mém.
Estud. Mus. zool. Univ. Coimbra (242): 5, fig. 4.
- N 2731 Haemaphysalis aculeata Lavarra, 1904. Bol. Soc. zool. ital.
5: 255.
- N 1364 Haemaphysalis africana Howard, 1909. Ann. Transv. Mus. 1:
219, pl. 34, figs 1-10.
- N 2881 Haemaphysalis ambigua Neumann, 1901. Mém. Soc. zool. Fr.
14: 362.
- N 2100, 2114, Haemaphysalis bancrofti Nuttall & Warburton, 1915. Ticks.
2115, 2689, A monograph of the Ixodoidea III: 487, figs 427-430.
2691
- N 2962, 2970 Haemaphysalis birmaniae Supino, 1897. Atti Soc. ven.-trent
sci. 3: 236.
- N 167 Haemaphysalis bispinosa Neumann, 1897. Mém. Soc. zool. Fr.
10: 341, figs 7, 8.
- N 515a Haemaphysalis bispinosa var. intermedia Warburton & Nuttall,
1909. Parasitology, Cambridge 2: 69, fig. 16.
- N 2118 Haemaphysalis borneata Hoogstraal, 1971. J. Parasit. 57:
1096, figs 1-9.
- N 2882 Haemaphysalis calcarata Neumann, 1902. Archs. Parasit. 6:
113, figs 2, 3.
- N 2996 Haemaphysalis calcarata houyi Nuttall & Warburton, 1915. Ticks. A
Monograph of the Ixodoidea, Pt. III: 444.

- N 2120a Haemaphysalis calvus Nuttall & Warburton, 1915. Ticks, A Monograph of the Ixodoidea, Pt. III: 445, figs 378, 379.
- N 897 Haemaphysalis campanulata Warburton, 1908. Proc. Camb. phil. Soc. math, phys. Sci. 14: 513, figs 5, 6.
- N 72 Haemaphysalis celebensis Hoogstraal, Trapido & Kohls, 1965. J. Parasit. 51: 1001, figs 1-9.
- N 2883 Haemaphysalis cornigera Neumann, 1897. Mém. Soc. zool. Fr. 10: 350, figs 16, 17.
- N 1108, 2692 Haemaphysalis cuspidata Warburton, 1910. Parasitology, Cambridge 3: 401, figs 6, 7.
- N 3388 Haemaphysalis darjeeling Hoogstraal & Dhanda, 1970. J. Parasit. 56: 169, figs 1-20.
- N 693a Haemaphysalis dentipalpis Warburton & Nuttall, 1909. Parasitology, Cambridge 2: 67, fig. 14.
- N 635 Haemaphysalis doenitzi Warburton & Nuttall, 1909. Parasitology, Cambridge 2: 64, figs 9, 10.
- N 2884, 2885 Haemaphysalis elongata Neumann, 1897. Mém. Soc. zool. Fr. 10: 354, fig. 19.
- N 2715, 2730 Haemaphysalis formosensis Neumann, 1913. Ent. Mitt., 2 Supp. Ent., (2): 135, figs 1, 2.
- N 1372 Haemaphysalis qoral Hoogstraal, 1970. J. Parasit. 56: 1235, figs 36-44.
- N 424 Haemaphysalis hoodi Warburton & Nuttall, 1909. Parasitology, Cambridge 2: 62, figs 7, 8.
- N 2847, 2848 Haemaphysalis hoodi var. orientalis Nuttall & Warburton, 1915. Ticks. A Monograph of the Ixodoidea Pt III: 486.
- N 1979 Haemaphysalis howletti Warburton, 1913. Parasitology, Cambridge 6: 123, figs 2, 3.

- N 669 Haemaphysalis humerosa Warburton & Nuttall, 1909. Parasitology,
Cambridge 2: 60, figs 4, 5.
- N 2956, 2957 Haemaphysalis hystricis Supino, 1897. Atti Soc. ven.-trent.
sci. 3: 237.
- N 1226 Haemaphysalis inermis Birula, 1895. Izv. Imp. Akad. Nauk,
Ser. 5, 2: 360, pl. II, figs 7-9.
- N 1566 Haemaphysalis inermis aponomoides Warburton, 1913.
Parasitology, Cambridge 6: 128, fig. 8.
- N 1247 Haemaphysalis japonica Warburton, 1908. Proc. Camb. phil.
Soc. math. phys. Sci. 14: 512, figs 3, 4.
- N 1248 Haemaphysalis japonica douglasi Nuttall & Warburton, 1915.
Ticks. A monograph of the Ixodoidea, Pt. III: 403.
- N 1997 Haemaphysalis kinneari Warburton, 1913. Parasitology,
Cambridge 6: 127, fig. 6.
- N 496c Haemaphysalis koningsbergeri Warburton & Nuttall, 1909.
Parasitology, Cambridge 2: 65, figs 11, 12.
- N 327, 1665,
1666, 1680,
1682, 1686 Haemaphysalis kutchensis Hoogstraal & Trapido, 1963. J. Parasit.
49: 489, figs 1-28.
- N 3599 Haemaphysalis lagrangei Larrousse, 1925. Annls Parasit.
hum. comp. 3: 304, fig. 3.
- H 1107 Haemaphysalis longipalpis Warburton, 1910. Parasitology,
Cambridge 399, figs 4, 5.
- N 3560 Haemaphysalis mjoebergi Warburton, 1926. Parasitology,
Cambridge 18: 57, fig. 3.
- N 760-762 Haemaphysalis montgomeryi Nuttall, 1912. Parasitology,
Cambridge 5: 57, figs 7, 8.

- N 129 Haemaphysalis neumanni Dönitz, 1905. Sber. Ges. naturf. Freunde Berl. (4): 127, figs 4-6.
- N 2890 Haemaphysalis numidiana Neumann, 1905. Archs Parasit. 9: 230.
- N 2816 Haemaphysalis obtusa Dönitz, 1910. Denkschr. med. naturw. Ges. Jena 16: 492, pl. 17, figs 11, 12.
- N 3666 Haemaphysalis papuana nadchatrami Hoogstraal, Trapido & Kohls, 1965. J. Parasit. 51: 433, figs 1-18, 44-50.
- N 1671b, 1672, 2077, 3071 Haemaphysalis paraturturi Hoogstraal, Trapido & Rebello, 1963. J. Parasit. 49: 686, figs 1-17.
- N 2887, 2888 Haemaphysalis parmata Neumann, 1905. Archs Parasit 9: 228.
- N 2889 Haemaphysalis parva Neumann, 1908. Notes Leyden Mus. 30: fig 10.
- N 540c Haemaphysalis proxima Warburton & Nuttall, 1909. Parasitology, Cambridge 2: 61, fig 6.
- N 1251b Haemaphysalis sambar Hoogstraal, 1971. J. Parasit. 57: 153, figs 1-10.
- N 1629, 2944 Haemaphysalis silacea Robinson, 1912. Parasitology, Cambridge 4: 478, figs 1a-f.
- N 2891 Haemaphysalis simplex Neumann, 1897. Mém. Soc. zool. Fr. 10: 345, figs 10-12.
- N 1647 Haemaphysalis spiniceps Warburton & Nuttall, 1909. Parasitology, Cambridge 2: 68, fig 15.
- N 2903 Haemaphysalis spinigera novaeguineae Hirst, 1914. Trans. zool. Soc. Lond. 20: 325, fig 16.
- N 3614 Haemaphysalis toxopei Warburton, 1927. Parasitology, Cambridge 19: 407, fig 3.

- N 1648 Haemaphysalis vidua Warburton & Nuttall, 1909. Parasitology,
Cambridge 2, 66, fig. 13.
- N 1400 Haemaphysalis warburtoni Nuttall, 1912. Parasitology,
Cambridge 5: 55, figs 5, 6.
- N 221 Haemaphysalis wellingtoni Nuttall & Warburton, 1908. Proc.
Camb. phil. Soc. math. phys. Sci. 14: 397, figs 9-11.
- N 3661 Hyalomma aegyptium isaaci Sharif, 1928. Rec. Indian Mus. 30:
307, fig 36, pl. IX, fig. 2.
- N 1219 Hyalomma monstrosum Nuttall & Warburton, 1908. Proc. Camb.
Phil. Soc. math. phys. Sci. 14: 414, figs 41-45.
- N 3659 Hyalomma kumari Sharif, 1928. Rec. Indian Mus. 30: 319,
fig 40, pl. IX, fig. 5.
- N 3873 Ixodes ampullaceus Warburton, 1933. Parasitology, Cambridge
24: 559, fig. 2.
- N 2069 Ixodes anatis Chilton, 1904. Trans. Proc. N.Z. Inst. 36,
n.s. 19: 201, pl. 10, figs 1-6.
- N 3594, 3595 Ixodes arvicolae Warburton, 1926. Parasitology, Cambridge
18: 56, fig. 2.
- N 3906 Ixodes auriculaelongae Arthur, 1958. Parasitology, Cambridge
48: 41, figs 7-12.
- N 1537 Ixodes banksi Bishopp, 1911. Proc. biol. Soc. Wash. 24: 200,
pl. 2, figs 3-6.
- N 961, 1142, 1200 Ixodes caledonicus Nuttall, 1910. Parasitology, Cambridge 3:
408, figs 1-3.
- N 245 Ixodes cavipalpus Nuttall & Warburton, 1908. Proc. Camb. phil.
math. phys. Sci. 14: 394, figs 1-5.
- N 3180, 3181 Ixodes dentatus var. spinipalpis Hadwen & Nuttall, 1916.
In Nuttall, Parasitology, Cambridge 8: 301, figs 6-8.

- N 2672, 2775 Ixodes eichhorni Nuttall, 1916. Parasitology, Cambridge 8: 295, figs 1, 2.
- N 650 Ixodes fecialis Warburton & Nuttall, 1909. Parasitology, Cambridge 2: 58, figs 1, 2.
- N 339 Ixodes fecialis var. aegrifossus Warburton & Nuttall, 1909. Parasitology, Cambridge 2: 59, fig. 3.
- N 1104 Ixodes gigas Warburton, 1910. Parasitology, Cambridge 3: 397, figs 1, 2.
- N 2964 Ixodes globulosus Supino, 1897. Atti Soc. ven.-trent. Sci. 3: 232.
- N 2966 Ixodes granulatus Supino, 1897. Atti Soc. ven.-trent. sci. 3: 232.
- N 3596 Ixodes gurnseyensis Arthur, 1955. Parasitology, Cambridge 45: 138, figs 10-16.
- N 279, 280 Ixodes kelloggi Nuttall & Warburton, 1908. Proc. Camb. phil. Soc. math. phys. Sci. 14: 396, figs 6-8.
- N 2066 Ixodes kempi Nuttall, 1913. Parasitology, Cambridge 6: 131, fig. 1.
- N 647 Ixodes loricatus spinosus Nuttall, 1910. Parasitology, Cambridge 3: 411, fig. 4.
- N 360 Ixodes nitens Neumann, 1904. Archs Parasit. 8: 460.
- N 2065 Ixodes oldi Nuttall, 1913b. Parasitology, Cambridge 6: 135, fig. 3.
- N 634 Ixodes percavatus rothschildi Nuttall & Warburton, 1911. Ticks. A Monograph of the Ixodoidea, Pt. II: 221.
- N 3872 Ixodes petauristae Warburton, 1933. Parasitology, Cambridge 24: 558, fig. 1.

- N 1401, 1402 Ixodes ricinoides Nuttall, 1913. Parasitology, Cambridge
6: 136, fig. 4.
- N 2533 Ixodes ricinus gibbosus Nuttall, 1916. Parasitology, Cambridge
8: 300, fig. 5.
- N 1171 Ixodes schillingsi Neumann, 1901. Mém. Soc. zool. Fr. 14: 288.
- N 1227 Ixodes signatus Birula, 1895. Izv. Imp. Akad. Nauk, Ser. 5,
2: 357, pl. I, figs 10-13.
- N 2967 Ixodes testudinis Supino, 1897. Atti Soc. ven.-trent. sci.
3: 230.
- N 2968 Ixodes varanensis Supino, 1897. Atti Soc. ven.-trent. sci.
3: 231.
- N 3194 Ixodes victoriensis Nuttall, 1916. Parasitology, Cambridge
8: 297, fig. 3.
- N 52 Margaropus lounsburyi Neumann, 1907. Archs Parasit. 11: 218,
figs 4-8.
- N 2960 Opisthodon canestrinii Supino, 1897. Atti Soc. ven.-trent.
sci. 3: 237.
- N 2959 Opisthodon gestroi Supino, 1897. Atti Soc. ven.-trent sci.
3: 238.
- N 320f Rhipicentor bicornis Nuttall & Warburton, 1908. Proc. Camb.
phil. Soc. math. phys. Sci. 14: 399, figs 12-16.
- N 2892 Rhipicentor vicinus Neumann, 1908. Ann. Transv. Mus. 1: 170,
pl. VII, figs f-1.
- N 2893 Rhipicephalus appendiculatus Neumann, 1901. Mém. Soc. zool. Fr.
14: 270.
- N 3845 Rhipicephalus ayrei Lewis, 1933. Parasitology, Cambridge 25:
269, figs 1, 2.

- N 1103 Rhipicephalus breviceps Warburton, 1910. Parasitology, Cambridge 3: 398, fig. 3.
- N 320e Rhipicephalus coriaceus Nuttall & Warburton, 1908. Proc. Camb. Phil. Soc. math. phys. Sci. 14: 402, figs 17-20.
- N 2894 Rhipicephalus deltoideus Neumann, 1910. Tijdschr. Ent. 53: 13, pl. 1, figs 3-7.
- N 1619, 1650, 1694 Rhipicephalus evertsi albigeniculatus Nuttall & Warburton, 1916. Bull. ent. Res. 6: 327.
- N 2110 Rhipicephalus follis Dönitz, 1910. Denkschr. med.-naturw. Ges. Jena, 16: 481, pl. 14b, fig. 12, pl. 16a, fig. 3.
- N 2108 Rhipicephalus glyphis Dönitz, 1910. Sber. Ges. naturf. Freunde Berl. (6): 278, fig 4.
- N 2963, 2965 2971 Rhipicephalus haemaphysaloides Supino, 1897. Atti Soc. ven.-trent. sci. 3: 232.
- N 2955 Rhipicephalus javanensis Supino, 1897. Atti Soc. ven.-trent. 3: 233.
- N 2109 Rhipicephalus kochi Dönitz, 1905. Sber. Ges. naturf. Freunde Berl. (4): 106, figs 1-3.
- N 351, 393 Rhipicephalus longiceps Warburton, 1912. Parasitology, Cambridge 5: 11, figs 6, 7.
- N 1460 Rhipicephalus longus Neumann, 1907. Ann. trop. Med. Parasit. 1: 117, figs 24, 25.
- N 246 Rhipicephalus masseyi Nuttall & Warburton, 1908. Proc. Camb. phil. Soc. math. phys. Sci. 14: 404, figs 21-26.
- N 1414 Rhipicephalus neavei Warburton, 1912. Parasitology, Cambridge 5: 9, figs 2, 3.
- N 1411 Rhipicephalus neavei punctatus Warburton, 1912. Parasitology, Cambridge 5: 10, figs 4, 5.

- N 2896 Rhipicephalus nitens Neumann, 1904. Archs Parasit. 8: 462.
- N 1246 Rhipicephalus pravus Dönitz, 1910. Denkschr. med.-natrw.
Ges. Jena 16: 479.
- N 2897 Rhipicephalus rossicus Yakimov & Kol-Yakimova, 1911. Archs
Parasit. 14: 419.
- N 1409, 1448 Rhipicephalus sculptus Warburton, 1912. Parasitology, Cambridge
5: 13, figs 8, 9.
- N 1562 Rhipicephalus shipleyi Neumann, 1902. Archs Parasit. 6: 112.
- N 1214 Rhipicephalus simpsoni Nuttall, 1910. Parasitology, Cambridge
3: 413, figs 6, 7.
- N 2898 Rhipicephalus ziemanni Neumann, 1904. Archs Parasit. 8: 464.

Appendix II

List of Species Names of Ixodoidea in the Nuttall Tick Collection

Nuttall numbers follow each species name. A number in brackets [] indicates a collection is missing. A species name or Nuttall number in *italic* indicates a junior subjective synonym or a tick

collection in which the original determination has been revised by myself or some other investigator whose identification agrees with mine. For example, N 273 was originally identified as Argas persicus. I redetermined it as Argas sanchezi; thus, the number appears under both names with *italic* used for the earlier determination.

Argasidae

Antricola sp. [3488]

Argas americanus (Marx) 206

- " arboreus Kaiser, Hoogstraal, & Kohls 3244
- " boueti Robaud & Colas-Belcour 1164, 1571
- " brumpti Neumann 333, 827, 1508, 1579, 1917
- " confusus Hoogstraal 975, 3716
- " dalei (sp. near) Clifford, Keirans, Hoogstraal & Corwin 2516
- " hermanni Audouin 2526
- " miniatus C. L. Koch 23, [138], 236, [721], 969, 971, 972, 973, 974, 976, [984], 985, 1260, 1977
- " persicus (Oken) 23, 53, [135], 136, 140, 155, 236, 242, 243, [253], 264, 273, [313], [315], 379, 440, 441, [469], [480], [500], 589, 590, [658], [659], 969, 970, 971, 972, 973, 977, 978, [979], 980, 981, 982, 983, 985, 1008, 1009, [1083], 1130, 1131, 1246, 1260, [1275], 1349, [1367], [1506], 1561, 1574, a, b, [1574c], [1687], [1695], [1904], 1905, [1951], 1977, [1995], 2013, 2063, [2082], 2207, 2231, [2238], [2332Z], 2440, 2448, 2516, 2526, 2633, 2693, 2849, [2936a], 3020, 3028, 3120, 3121, 3244, [3397], [3509], [3510], [3536], [3550], 3754, 3921
- " persicus group 2231
- " persicus var. miniatus C. L. Koch 236
- " radiatus Railliet 206, 379
- " reflexus (Fabricius) 354, [1259], [1288], [1289], 2279, 2768, 2769, 2936, 3134, [3159], [3165], 3235, 3439, [3439a]
- " reflexus group 2279, 2768
- " reflexus var. indicus Warburton 1243, 1649
- " sanchezi Dugès 273
- " transgaripepinus White [3135]

- " vespertilionis Latreille 225, 403, 453, 522, 591, 592, 593, 828,
975, 1151, 1152, 1153, 1163, 1192, 1571, 1856, 2029,
2030, 2746, 3134, 3173, 3288, 3402, 3547, 3558, 3600,
3628, 3649, 3716
- " walkerae Kaiser & Hoogstraal 3754
- " sp. 225, 976, 1154, 1164, 1346, [1388], 2521, [2523], 2619,
2684

Ornithodoros amblus Chamberlin 2522

- " azteci Matheson 3968
- " brodyi Matheson 3966
- " capensis Neumann 913, 1187, 1849, 3438
- " capensis group 594
- " coniceps (Canestrini) 3355, 3622, 3957
- " coriaceus C. L. Koch 288, 349, 1376, [2739], 2993, 2994, [3797]
- " crossi Brumpt 3472, 3548, 3604, 3623
- " dunni Matheson 3967
- " erraticus (Lucas) 3357, 3621
- " foleyi Parrot 3855, 3890
- " franchinii Rondelli 3855, 3890, [3922]
- " furcosus Neumann 2512
- " gurneyi Warburton 3562, 3590, 3652
- " hasei Schulze 3967
- " kelleys Cooley & Kohls 3769
- " lahorensis Neumann 369, 765, 1242, 1368, 2023, 2155, 2524, 2525,
3501, 3549, 3559, 3623, [3647]
- " marocanus Velu 3357, 3621
- " megnini (Duges) 226, [387], [596], [722], [908], [1113],
1569, 1832, [2085a], [2653], [3290], [3755], 3757, [3779]
- " moubata (Murray) [14], 71, [122], 132, [203], [204], 205, [238],
346, 359, [390], [455], 475, [595], [614], 724, [757],
818c, [819], 887, [939], [1076], [1077], [1312], [1319],
1580, [1585], 1918, 1920, 1948, [1970], 2021,
2024, [2027], 2040, 2074, [2166], 2173, 2389, 2467,
2471, 2476, [2558], [2559], 2563, [2568], 2569, [2572],
2574, [2578], [2582], 2584, 2588a, [2600a], 2605, 2609,
2615, 2644, 2650, [2783], [2831], 3018, [3102], 3216,
[3260], 3298, 3299, 3300, 3798, 3937
- " normandi Larrousse 3545
- " papillipes (Birula) 3630, 3768
- " peringueyi Bedford 3795, 3865
- " piriformis Warburton 3335
- " rostratus Aragao [1895], 2218, 2676, [3372]
- " rudis Karsch 3732
- " savignyi (Audouin) 34f, 657, 758, 909, 910, 911, 912, 949, 966,
1236, 1436, 1513, 1550, 1575, [1827], 1910, 1959, 2011,
2392, 3613
- " talaje (Guerin Meneville) 594, 725, 967, 1276, [1277], 1849,
2107, 2177, 2217, 2442, 2522, 3162, 3349, 3355,
3438, 3605, 3769, 3790, 3901, 3957
- " talaje var. capensis Neumann 913, 1187

- Ornithodoros tholozani (Laboulbène & Megnin) 369, 794, 1660, 1734, 2230,
23427, 2441, 3068, 3472, 3548, 3604, 3623, 3630, 3768
" turicata (Dugès) 348, 723, 1022, [1112]
" venezuelensis Brumpt 3732
" sp. 32, [292], 794, 967, 2521, 2619, 2684, 3288, 3349, [3553],
[3583], [3618], [3619], 3637, 3784

- Otobius lagophilus Cooley & Kohls 2045, 2046
" megnini (Dugès) 226, 1569, 1832, 2045, 2046, 3757

Ixodidae

- Amblyomma albolimbatus Neumann [78], 567, 569, 771X, 2690b, 3124, 3523
" albopictum Neumann 2866
" americanum (Linnaeus) 139, 380, 705, 1198
" annandalei Warburton 1106
" argentinae Neumann 2867
" astrion Dönitz 3587
" auriculatum (Conil) 2872, 2995, 3728, 3729
" australiense Neumann 547, 1206, 2868, 3522
" badium Neumann [824]
" braziliense Aragão 823, 1262, 2219b
" caelaturum Cooper & Robinson 2938
" cajennense (Fabricius) 212, [222], 374a, b, 375a, [375b, c], 376a,
377a, b, [381], 457, 557, 648, [706], 707, 995, [1180a],
1266, [1284], [1496], [1505], 1654, 1864, [1865], [1911],
[1972], 1973, [1974a], [1975], 1992, a, 2000, 2178,
[2179], [2180], [2182], 2183, [2184a], 2214, 2215, 2216,
2219a, 2222, 2479, 2899, 3096, [3097], [3098], 3099,
3441, [3455], 3461, 3464, [3465], [3467], [3541], [3574],
3724, 3898
" calcaratum Neumann 2869, 3411, 3454, 3462, 3723
" clypeolatum Neumann 43, [75], 3126, 3416, 3608, 3611
" coelebs Neumann 1654, 2214, 2215, 2870, 2871, 3468, 3703, 3722
" cohaerens Dönitz 772, 1290, 1291, 1548, 1549, 1551, 1582, 1583,
1584, 1607, 1715, 1781e, 1813, 2020, 2397, 2716, 2902,
2906b, 3014, 3015, 3211, 3382, 3587, 3638, 3710, 3914, 3927
" compressum Macalister 564, 3379, 3401, 3491, 3910, 3946, 3948, 3961
" concolor Neumann 1264, 2872, 2995, 3728, 3729
" cooperi Nuttall & Warburton 70, 821, 1261, 2219b
" cordiferum Neumann 3568, 3616
" crenatum Neumann 3511, 3601
" cruciferum Neumann 460
" cuneatum Neumann 564, 3379, 3401, 3491, 3910, 3946, 3948, 3961
" cyprium Neumann 6, 73, 565, 987, 1188, 1208, 1209, 3399, 3569, 3570,
3615
" dammermani Warburton 3615
" darlingi Nuttall 1285, 1286, 1287
" decoratum C. L. Koch [93], [2187a]
" deminutivum Neumann 642, 1524

- Amblyomma dissimile C. L. Koch 40, 126, 289, 460, 568, 653, 709, 1268, 1283, 1522, 1524, 1597, 1598, 1599, 1653, 1704, 1726, 1822, 1870, 1873, 1883, 1935, 2010, 2086, 2112, 2176, 2185, 2685, 2686, 3110, 3238, 3492, [3525], 3540, 3609, 3965
- " eburneum Gerstäcker 874c, 947, 1620, 3001, 3788
- " echidnae Roberts 3522
- " falsomarmoreum Rondelli 1155, 3611
- " fiebrigi Robinson 2939
- " furcula Donitz 946
- " geayi Neumann 1149, 1651, 3125, 3725, 3900
- " gemma Dönitz 22, 558b, 945, 960, 1158, 1432, 1544, 1552, [1724], 1758, 1786b, 1789a, 1794c, 2570c, 2577, 2586c, 2599, 2603a, 2604b, 3001, 3016, 3215e, 3263, 3610, 3772, 3786
- " geoemydae (Cantor) 202, 545, 2938
- " goeldii Neumann 2617, 2873, 2874, 3446
- " hebraeum C. L. Koch 22, 26, [79], 131, [177], [177X], 232d, [418], [419], [420], [450], 964, 1298, 1350, 1351, 1352, 1353, [1354], 1355, 1356, 1357, [1475], 1476, [1477], 1478, [1479], [1480], [1481], 1482, [1483], 1484, [1485], [1486], [1487], 1488, [1489], [1490], [1491], 1732, [1925], [2154], [2288], [2289], [2290], 2291a, [2292], 2293, 2295, 2296, 2298a, [2300], [2301], 2302, [2304b], 2308b, 2309a, 2310a, 2311a, 2312a, [2313a], 2316a, 2413a, [2418b], 2419b, 2421a, [2424], [2429a], [2432], [2433], [2434], [2435], [2436], 2437a, 2439, 3474c, 3475, [3476], [3477], [3481], [3756]
- " helvolum C. L. Koch 308, 482, 486, 490, 491, 492, 494a, 1016, 1017b, 2051, 3077a, 3123, 3327
- " hippopotamensis (Denny) [1030]
- " hirtum Neumann [397]
- " humerales C. L. Koch 1261X, 2620, 2940, 3459, 3727
- " incisum Neumann 1265, 1738a, 1897, 3702
- " integrum Karsch 182, 184, 512a, 518, 811, 825, 835, 1221, 1228, 1229, 2001, 2934, 3069, 3326
- " javanense (Supino) 483, 1063, 1101, 1102, 1292, 1293, 1664, 1667, 1668, 1861, 1944, 2969, 2982, 3514
- " latum C. L. Koch 3584, 3585
- " lepidum Dönitz 22, 86, 104, 193c, [442c], [444], [526], 527, 529, 874c, 944, 1544, 1758, 1781e, 1786b, 1794c, 2203, 2204, 2205a, 2210a, 3075, 3191, 3261, 3272b, 3633, 3670, 3888
- " loculosum Neumann 3603
- " longirostre (C. L. Koch) 560, 2940, 3409, 3410
- " macfarlandi Keirans, Hoogstraal & Clifford 711
- " maculatum C. L. Koch 382, 710, 994, 1270, 3212, 3493
- " mantiquirensis Aragão 822, 1267, 1741, 3243, 3443, 3449, 3450, 3458, 3943, 3955
- " marmoreum C. L. Koch [77], 89, 95, 199, 200, 228, 229, 240, 570, [744], 939a, 940, 958, 959, 1088, 1095, 1155, 1157, [1428], 1438, 1659, 1747, 1838, 2196, 2199, 2326, 2386a, 2797, 3042, 3081, 3082, 3083, 3086, 3087, 3215f, [3650], 3926, 3953

- Amblyomma moreliae (L. Koch) 1520, 1523, 1841, 2690b, 3523
 " naponense (Packard) 822, 1267, 1741, 1746, 3243, 3443, 3449, 3450, 3458, 3943, 3955
 " neumanni Dönitz 946
 " nitidum Hirst & Hirst 3657
 " nodosum Neumann 36, 1269, 2317, 2874, 3128, 3713, 3726
 " nuttalli Dönitz 681, 939a, 940, 958, 996, 997, 1421, 1443, [1814], 1838, 2196, 2199, 2326, 2797, 3042, 3085, 3086, 3088, 3093, 3709, [3770], 3853
 " oblongoguttatum C. L. Koch 1285, 1286, 1287, 1896, 3099, 3451, [3701], 3704, 3724, 3898
 " ovale C. L. Koch 562, 566, 1263, 1271, 1655, 2219, 2222b, 2224, 2688, 2774, 2821, 3404, 3405, 3415, 3440, 3445, 3452, 3453, 3456, 3457, 3463
 " pacae Aragão 1892, 1893, 2939, 3730
 " parvitarsum Neumann 3971
 " parvum Aragão 3899, 3902a, 3903, 3972
 " paulopunctatum Neumann 2478, 3091, 3437
 " pecarium Dunn 557, 3969
 " personatum Neumann 250, 326, [965], 3602, 3672, 3904
 " petersi Karsch 29, 249, 779, 938, 941, [956], [957], 1031, 1032, [1089], 1098, 1315, 1338, 1435, 1719, 1720, 1721, 2785, 2972, 3215g, 3429, 3912, 3913
 " pictum Neumann 1738
 " pilosum Neumann 711
 " pomposum Dönitz 142, 311, 336, 337a, 338, 392, 755, 2041a, 2638, 2639, 2646, 2941, 3029, 3032
 " pseudoconcolor Aragão 820, 1264
 " quasicyprium Robinson 565, 3569
 " rhinocerotis (de Geer) 29, 779, 938, 941, 1031, 1032, 1089, 1098, 1315, 1338, 1435, 1719, 1720, 1721, 2785, 2972, 3215g, 3429, 3912, 3913, 3953
 " robinsoni Warburton 3617
 " rotundatum C. L. Koch 2617, 2703, 2704, 2874, 3446
 " sabanerae Stoll 3727
 " scutatum Neumann 2876
 " sparsum Neumann 89, 240, 249, 959, 1088, 1095, 1438, 1747, 1934, 2386a, 3215f, 3926, 3953
 " splendidum Giebel 194, 196, 1578, 1610, 1650a, 1697, 1898, 1947, 2259a, 2262c, 2333, 2337, 2338b, 2505b, 2506b, 2649, 2670c, 2742, 2802, 2900, 3003, 3034a, 3376, 3530, 3927
 " striatum C. L. Koch 223, 1271, 2219, 2222b, 2688
 " sublaeve Neumann 483, 564, [824], 1063, 1101, 1102, 1292, 1293, 1664, 1667, 1668, 1859, 1944, 2955, 2969, 2982, 3514
 " supinoi Neumann 1106, 2967, 3391, 3392, 3489, 3578
 " sylvaticum (de Geer) 3584, 3585
 " tapirellum Dunn 3970

- Amblyomma testudinarium C. L. Koch 489, 495a, 540a, [540e], 540h, 541, [1056a], 1084, 1369, 1568, 1859, 1908, 1909, 2103, 2119a, 2909a, 2914a, 2916a, 2919, 3127, 3161, 3338, 3430, 3469, 3511, 3567, 3859, 3939, 3956
- " testudinis (Conil) 2867, 2967, 3861
- " tholloni Neumann 218, 528, 559, 773, 1217, 1232, 1318, 1417, 1603, 1652, 1809, 1915, 2018, 2263, 2271, 2318c, 2483a, 2507, 2595, 2717, 3092, 3301c, 3381, 3384, 3915
- " tigrinum C. L. Koch 1270
- " triguttatum C. L. Koch 340, 546, [551], 552, 553, 3400, 3518, 3676
- " triste C. L. Koch 3212a
- " tuberculatum Marx 708, 3356, 3490
- " uncatum Nuttall 36
- " v-notatum Nuttall 1149
- " variegatum (Fabricius) [102b], 105, [106a], [159], [160], [161a], [162a], [163], [164], [165], [190], 192a, [319], [320b], [372c], [373b], [425b], [427a, e], 429, [430], [433], [437], 465, 476, 527, 664, [672a], [673a], 680d, 694, [734], [743], [750a], [775d], 778, [871], 872, [873], [875], 877c, [879,a], 881c, [883], [884], [886], 886a, [889], [1114], [1115], [1310], 1325, 1344, [1345], 1423, 1437, 1551, [1622], [1623], 1650, 1694a, 1762, [1812], 1853, 1855, 1921, 1956a, 2022, 2041a, [2042], 2094, 2133a, 2134a, 2135, 2136a, 2138, 2140, 2142a, 2144a, 2146a, [2167a], 2170, [2229a], [2256], [2259b], [2260a], [2261], 2262, [2265], 2318c, [2329], 2330, [2331a], [2332], 2334a, [2335a], [2336b], [2337a], [2339], [2340], [2341], [2342], [2343c], [2344], [2361], [2390], [2400], 2477a, [2485a], 2488a, [2493a], [2494], [2497c], [2499a], [2500], [2501a], 2503, [2504a], [2505a], [2506a], [2549], [2550], [2551], 2567, [2585], [2586d], 2588, 2592, 2593, 2596, 2608, [2612a], 2613, [2614e], 2616, [2640a], [2641a], [2642], [2659b], [2662a], [2669b], [2670d], [2678], [2679], [2701b], 2711, [2773], [2829], 3000, 3034, b, [3037a], 3044b, [3045a], [3046a], [3048], [3049a], [3050a], [3052], [3053b], [3054d], [3055c], [3058c], [3061], [3063], [3079a], 3080, [3112], [3143a], [3144a], [3145b], [3151a], [3152a], [3168], [3169], [3204], 3210, [3215h], 3263b, [3273], [3292], [3303], [3339], [3340], [3341], [3367], [3369], [3385], [3403], [3526], 3685, 3689, 3721, 3800, 3811, 3816, 3820, 3821, 3822, 3824, 3827, 3828, 3839, 3840, 3841, 3893
- " variegatum var. nocens Robinson 2941
- " varium C. L. Koch 1149, 2618, [2808], 3156, [3351], 3723, 3900a
- " versicolor Nuttall & Warburton 212
- " n. sp. [13]
- " sp. 9, 74, [76], [100], 131, 183d, 185b, 199, 200, 213, 214, 215, [281], [287], [305a], 442a, b, [544], 545, 633, [790a], 880, 881c, 882, [885a], [1018], 1166, 1251c, 1386, 1391, 1392, 1393, 1394, 1396, 1397, 1457, 1458, 1515, 1523, 1589, 1656, [1710], 1717, 1738b, 1810, 1836, 1862, 1869, 1901, 1955, 1984, 2088, 2133a, 2135, 2136a, 2144a, 2146a, 2216, [2224a], 2330, 2417b, 2425a, 2738, 2749, [2750], [2775], 2955, 3081, 3082, 3083, 3087, 3110, 3227, 3321a, 3412, 3444, 3460, 3466, 3656, 3731

Anocentor nitens (Neumann) 376a, 378, 385, 461a, 701, 1280, 1281, 1282, 1626, 1707, 1863, 1866, 1867, 1968, 1975a, 1999, 2085b, 2181, 2184, 2681, 2682, 2767, 2880, 3212, 3214, 3496, 3497

Aponomma auruginans Schulze 3195, 3196, 3197, 3520

" concolor Neumann 3517

" decorosum (L. Koch) 42, 550, 1842, 1843, 1844, 1845, 2189, 2690a, 2991, 2992, 3131

" draconis Warburton 3875

" ecinctum Neumann 2877

" exornatum (C. L. Koch) 37, 44, 487, 493, 494, 508, 521, 531, 554, 636, 661, 736, 1096, 1238, 1316, 1317, 1427, 1517, 1547, 1604, 1752, 1753, 1900, 2014, 2051, 2386, 2466, [2718], 2788, 2823, 3002, 3317, 3380, 3478, [3554], 3917

" fimbriatum (C. L. Koch) 2051, 2877, 2942, 3131

" flavomaculatum (Lucas) 531, 661, 776, 1316, 1317, 1427, 1547, 1604, 2200, 2386, 2466, 3317

" gervaisi (Lucas) 38, 45, [92], 120, 153, 470, 472, 484, [548], 1233, 1516, 1625, 1685, 1698, 1858, 1903, 2357, 2697, 2698, 2746z, 2747, 2981, 2983, 3070, 3123a, 3130, 3199, [3358]

" gervaisi var. lucasi Warburton 41, [90], [91], 470, 471, 1017a, 1365, 1518, 1519, 1521, 1728, 2038, [2113], 2187, 2275, 2276, 2968, 3118, 3203, 3346, 3389

" hydrosauri (Denny) 120, 158, 556, 1739, 1745, 3516, 3517, 3524

" komodoense Oudemans 3875

" laeve Neumann 39, 328, 439, 502, 681a, 939b, 1109, 1133, 1907, 1945, 3039, 3084, 3271, 3315, 3337, 3374, 3871

" laeve var. capensis Neumann 3138

" laeve var. paradoxum Nuttall in Wall 1074, 1244, 1245, 1366, 2017, 2699, 2746a, 2748, 3336, 3364, 3365, 3366, 3565

" latum (C. L. Koch) 39, 438, 439, 502, 681a, 939b, 1133, 3039, 3084, 3271, 3315, 3374, 3871

" oudemansi Neumann 2878

" p[-----]s 3195, 3196, 3197, 3520

" pattoni Neumann 39, 1074, 1109, 1244, 1245, 1366, 1514, 1907, 1945, 2017, 2699, 2746a, 2748, 2879, 3336, 3337, 3364, 3366, 3494, 3565

" quadratum Cooper & Robinson 2943

" simplex Cooper & Robinson 2942

" sphenodonti Dumbleton 3864

" trachysauri (Lucas) 158

" transversale (Lucas) 1234

" trimaculatum (Lucas) 1205, 2038, 2050, [2052], 2690c, 2823, 2985, 2986, 2987, 2988, 2989, 2990, 3076, 3077, 3078, 3131a, 3519

" varanensis (Supino) 41, 470, 471, 472, 484, 487, 493, 494, 554, 1017a, 1365, 1518, 1519, 1521, 1728, 2187, 2275, 2276, 2943, 2968, 3118, 3123a, 3203, 3346, 3389

" sp. 466, [571], [1403], [1404], [1405], 1836, 1984, 2015, 2051, [2381], [2674], 3138, 3270, 3365, 3632, 3864

Boophilus annulatus (Say) [16], 46b, 156, 157, 166, [244], [305], [383],
 [713], [789b, c], 791, 792, [1025], 1052c, 1053c, 1177,
 1180b, [1180c], [1230a], 1230b, c, 1250, 1252a,
 1254, 1465, 1596, 1650b, 1658, 1689, 1699, 1829,
 1830, 1831, [1833], 1834, 1926b, 1930, [1931],
 1976, [1978], 1983, 2061, 2078, 2084, 2085, 2162,
 2163, [2175], 2208, 2211, [2278], 2285, [2391], 2510,
 2511, 2543, [2552a], 2670, 2712, 2720, 2728, 2853a,
 2863a,, 3289, 3470, 3483, [3607], 3796a

" *australis* (Fuller) [3], 33, 34a, b, e, 54, [141], 154a, [179],
 180, 183b, 185a, 188b, 207, 208, 219, 296, 307a, 312,
 [314], 316, 317, 318, 325, 344, 345a-c, [427d], 428,
 435, 437a, 452, [462], 495d, 540d, g, j, 543, 712,
 729, 734a, 737, 739, 743a, 830, 831, 832, 861, 955,
 993, 1010, 1011, 1012, 1019, [1020], [1033], 1059, 1061,
 1070b, 1071a, 1090, 1116, 1177, [1278], 1279, 1348,
 1379, 1383, 1384, 1465, [1567], 1631a, 1706, 1762a,
 1767, 1771, 1774, 1775, 1779, 1781b, 1782a, 1783b,
 1784, 1785a, 1786a, 1787a, 1788, 1789b, 1790a, 1794b,
 1835, 1840, [1857], 1924, 1926b, 1943b, [1957], 1960,
 1961, 1962, 1963, 1964, 1965, 1967, 1968, 1974, [1975b],
 1982, 1986, [1992], [1993], [1994], 2004, 2005, 2007,
 [2016], 2033, 2034, 2035, 2037, 2061, 2099, 2102, 2119,
 2162, 2163, 2186, 2191, [2195], 2220, [2221], [2222a],
 [2223], 2225, 2226, 2227, 2228, 2229, 2235, [2249],
 2250, [2254], 2256b, 2259, 2260, 2261d, 2262a, 2267,
 2273, 2288a, 2289a, 2290a, 2291, 2292a, 2294, 2301b,
 2303, 2305, 2306, 2308, [2309], 2311, 2312b, 2313,
 2314, 2315, 2316, 2318b, 2325a, 2329b, 2331b, [2335b],
 2336, 2337c, 2340b, 2341b, 2342a, 2343b, 2343z, 2345,
 2346, 2351, 2361z, 2370b, 2413, 2414, 2415, 2416, 2417a,
 2418, 2419, 2420a, 2421, 2426, 2427, 2429, 2430, 2431,
 2444, 2445, 2457, 2463, 2482c, 2484, 2485, 2490b, 2491,
 2492, 2493, 2494b, 2497, 2499, 2500a, 2501, 2503a, 2504,
 2505, 2506, 2529a, 2530, 2543, 2621, 2626, 2627, 2640,
 2641, 2646a, 2655, 2656, 2657, 2659, 2660, 2661, 2662,
 2664, 2666, 2667, 2668, 2669, 2670, 2671, [2677], [2683],
 2691a, 2712, 2721, [2726], 2727, 2781, 2782, [2845],
 2853a, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2918,
 3034c, 3036, 3037b, 3040, 3041, 3044c, 3045, 3046, 3047,
 3048c, 3049, 3050, 3053, 3054c, 3055b, 3056, 3057, 3058a,
 3064, [3105], [3106], 3107, 3116, 3143, 3144, 3145,
 3146, 3147, 3148, [3149a], 3150, 3151, 3152, 3153, [3164],
 [3176], 3255, 3261a, 3263a, 3276a, 3289, 3294, 3295,
 3296, 3303a, 3304, 3332, 3362, 3369a, 3398, 3422, 3427,
 3442, 3849, 3905, 3907

" *calcaratus* (Birula) 791, 792

" *caudatus* (Neumann) 833

Boophilus decoloratus (C. L. Koch) 79a, 133, [248a], 306, 372a, [373a], 391, [412], 413, [432], [458c], 467, 468, [473], 477, 497b, [532a, b], 672b, 676, 677a, 734a, 737, 739, 743a, 775, 776, 777, 871b, 873b, 874a, 875a, 877b, 879b, 881a, 886b, [1111c], 1117, 1605, [1694c], [1939], [1940], 1956, 1969, 2091, 2131, 2136, 2138, 2139, 2140, [2141], [2142], [2143], 2144, 2145, [2146], 2147, 2148, 2167, 2170c, 2256b, 2259, 2260, 2261d, 2262a, 2267, 2273, 2312b, 2325a, 2329b, 2331b, 2336, 2337c, 2340b, 2341b, 2342a, 2343b, 2344c, 2361a, 2370b, 2450, 2539, 2586, 2593a, 2596, 2646a, 2712, [2744], 3079, 3080a, 3111, 3112a, [3157a], 3255, 3303a, 3342, 3369a, 3379X, [3481b], [3753], [3842], [3946], 3849

" geigyi Aeschlimann & Morel 428, 2131, 2136, 2138, 2139, 2140, 2144, 2145, 2147, 2148, 2256b, 2259, 2260, 2261d, 2262a, 2267, 2273, 2325a, 2329b, 2331b, 2336, 2337c, 2340b, 2341b, 2342a, 2343b, 2344c, 2482c, 2484, 2485, 2490b, 2491, 2492, 2493, 2494b, 2497, 2499, 2500a, 2501, 2503a, 2504, 2505, 2506, 2547b, 2655, 2656, 2657, 2659, 2660, 2661, 2662, 2664, 2666, 2667, 2668, 2669, 2670, 3034c, 3036, 3037b, 3040, 3041, 3044c, 3045, 3046, 3047, 3048c, 3049, 3050, 3053, 3054c, 3055b, 3056, 3057, 3058a, 3111, 3143, 3144, 3145, 3146, 3147, 3148, 3150, 3151, 3152, 3153, 3332

" microplus (Canestrini) 33, 34a,b,e, 54, 154a, 156, 157, 180, 183b, 185a, 186b, 188b, 207, 208, 219, 296, 307a, 312, 316, 318, 325, 344, 345a-e, 435, 437a, 452, 461b, 495d, 515, 517, 524a, 540d,g,j, 543, 588, 672b, 712, 729, 739, 830, 831, 832, 833, 861, 955, 993, 1010, 1011, 1012, 1019, 1059, 1061, 1070b, 1071a, 1090, 1116, 1117, 1180b, 1250, 1252a, 1254, [1273], 1779, 1306a-d, 1348, 1379, 1383, 1384, 1631a, 1699, 1706, 1762a, 1767, 1771, 1774, 1775, 1779, 1781b, 1782a, 1783b, 1784, 1785a, 1786a, 1787a, 1788, 1789b, 1790a, 1794b, 1828, 1829, 1831, 1834, 1835, 1840, 1855, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1924a, 1943b, 1960, 1961, 1962, 1963, 1964, 1965, 1967, 1974, 1976, 1982, 1986, 2004, 2005, 2007, 2033, 2034, 2035, 2037, 2085, 2099, 2102, 2119, 2186, 2191, 2220, 2225, 2226, 2227, 2228, 2229, 2235, 2239, 2250, 2288a, 2289a, 2290a, 2291, 2292a, 2294, 2301b, 2303, 2305, 2306, 2308, 2311, 2313, 2314, 2315, 2316, 2317, 2318b, 2343Z, 2345, 2346, 2351, 2413, 2414, 2415, 2416, 2417a, 2418, 2419, 2420a, 2421, 2422, 2426, 2427, 2429, 2430, 2431, 2444, 2445, 2457, 2463, 2529a, 2530, 2621, 2626, 2627, 2640, 2641, 2671, 2691a, 2720, 2721, 2727, 2781, 2782, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2918, 3017, 3064, 3107, 3116, 3261a, 3263a, 3276a, 3294, 3295, 3296, 3304, 3362, 3398, 3422, 3427, 3442, 3470, 3796a, 3905, 3907, one collection without Nuttall number

Boophilus sp. 133, [137], 186b, 471b, 588, 680a, 1828, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 2147, 2148, 2211, [2284b], 2538, 2547b, 2586, 2593a, [2927], 3017, 3079, 3080a, [3291]

Ceratixodes putus (Pickard-Cambridge) 617, 618, 714, [968]

Dermacentor albipictus (Packard) [271], 666, 702, 745, [747], 812, 1105, [1136], 1199, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1530, 1531, 1627, 1628, 1735, 2083, 2237, 2714 3100, 3101, 3311, 3498, 3521, 3708

" andersoni Stiles [209], 211, 698, 700, 1064, 1145, 1146, 1147, 1197, 1387, 1390, 1534, 1535, 1731, 2043, 2044, 3021, 3022, 3502, 3503, 3639, 3640

" asper Arthur 2920, 2978

" atrosignatus Neumann 3941

" auratus Supino 817, 1860, 2827, [2905z, a], 2961, 3074, 3117, 3185, [3186], 3187, 3329, 3330, 3390, 3495, 3667, 3860, 3940

" auratus compactus Neumann 767, 1056b, 1062

" " group 3859, 3860

" circumguttatus Neumann 1150, 1725, 1902, 2019, 2483, 3004, 3383, 3916

" compactus Neumann 817

" everestianus Hirst 3793

" hunteri Bishopp 1536, 3508

" imitans Warburton 3874

" indicus (Supino) 2969

" marginatus (Sulzer) 703, 3500

" modestus Banks 698

" nigrolineatus (Packard) 660, 1531, 2083, 3100, 3101, 3498

" nitens Neumann 379, 385, 461a, 701, 1280, 1281, 1282, 1626, 1707, 1863, 1866, 1867, 1975a, 1999, 2085b, 2181, 2184, 2681, 2682, 2767, 2880, 3212, 3214, 3496, 3497

" niveus Neumann 807, 808, 809, 1078, 1375, 1821a, 1936, 2117, 2156, 2527, 2907, 2920, 2978, 3201, 3213, 3217, 3414, 3631

" occidentalis Marx [1], [2], [209], [210], 697, 1532, 1570, 1953, [3225], 3506, 3507

" parumapertus Neumann 699, 703, 1533, 3417, 3499, 3500, 3919

" parumapertus var. marginatus Banks 1533

" reticulatus (Fabricius) 800, 807, 808, 809, 914, 1077, 1936, 2053, 2058, 2059, 2060, 2117, 2930, 2932, 3160, [3354], 3371, 3631

" reticulatus niveus Neumann 3213, 3414

" rhinocerinus (Denny) 29b, 251, 320a, 555, 563, 829,a, 941a, 1029, 1087, 1097, 1231, 1320, 1332, 1337, 1342, 1343, 1440, 1722, 1751, 2784, 2973, 2974, 3215i, 3856, 3911

- Dermacentor rhinocerotis* (de Geer) 251, 320a, [538], 555, 563, 829, 829a, 941a, 1029, 1087, 1097, 1231, 1320, 1332, 1337, 1342, 1343, 1440, 1722, 1751, 2784, 2973, 2974, 3215i, 3911
- " *rhinocerotis* var. *permaculatus* Neumann 3856
- " *variabilis* (Say) (266), 386, 696, 704, 1148, 1800, 1801, 1802, 1803, 1824, 2937, 3310, 3328, 3504, 3505, 3641, 3643
- " *variegatus* Marx [268], [296a]
- " *venustus* Marx 700, 1064, 1145, 1146, 1197, 1534, 1535, 1731, 2043, 2044, [2274], 3021, 3022, 3639, 3640
- " sp. [274], [276], [277], 317, 466, 767, 1056b, 1062, [1204], 1370, 1375, 1497, 1501, 1502, 1503, 2907, 2930, 2932, 3074, 3117, 3201, 3329, 3330, 3390, 3495, 3521, 3543, 3667, 3940, 3941

Gekobia sp. (mites) [1829]

- Haemaphysalis *aborensis* Warburton [1980], 2958
- " *aciculifer* Warburton 1981, 2625, 3219, 3529, 3720, 3738, 3781, 3928, 3954
- " *aculeata* Lavarra 1107, 2731, 3880
- " *africana* Howard 1364
- " *ambigua* Neumann 2881
- " *anomala* Warburton 3658
- " *aponommoides* Warburton 1566
- " *asiaticus* (Supino) 693a, 2959
- " *bancrofti* Nuttall & Warburton 2100, 2114, 2115, 2192, 2689, 2691, 3090, 3222, 3223, 3373, 3711
- " *birmaniae* Supino 2962, 2970, 3187a, [3218], 3388
- " *bispinosa* Neumann 31, 34b, c, d, 148, 150, 151, 152, 167, 168, 169, 183c, 186a, 187, 188a, 307b, 510, 515a, 515b, 574, 582, 583, [683], 863, 869, 890, 891, 892, 906, 1060b, 1071b, 1086a, b, 1253a, 1384a, 1406, [1673a], 1781d, 1783a, 1786c, 1787b, 1790b, 1804, 1826, 1906, 1958, 2002, [2153], 2459, 2529b, 2745, 2846, 2864, 2901, [2905], 2908, 2909, 2911a, 2976, 3072, 3172, 3264, 3266, 3269, 3395, 3418, 3419a, 3421a, 3529, 3696
- " *bispinosa* var. *intermedia* Warburton & Nuttall 34d, h, 327, 1665, 1666, 1672, 1680, 1682, 1686, [2056], 2077, 3071, 3334
- " *borneata* Hoogstraal 2118
- " *calcarata* Neumann [1203], 1224, 2882, 3952
- " *calcarata* var. *houyi* Nuttall & Warburton 2996, 3674
- " *calvus* Nuttall & Warburton 2106, 2120a
- " *campanulata* Warburton 524, 579, 897, 1251b, 2886, 2917, 2921, 3576, 3627
- " *celebensis* Hoogstraal, Trapido & Kohls 72
- " *choprai* Sharif (sp. near) 2962
- " *chordeilis* (Packard) 943, 2452, 2737, 2833, 2834, 3023, 3026, 3027

- Haemaphysalis cinnabarina* C. L. Koch [780a], 784, 787, 789e, 804, 2705, 2706, 2707, 2708, 2709, 2710, 2780, 3008, 3286, 3448, 3473
- " *cinnabarina* var. *punctata* Neumann [15], [398], 3129, 3393, 3582 [3647b], 3648, 3673, 3763
- " *concinna* C. L. Koch 1075, 1529, 1987, 2754, 2755, 2760, 2761, 2763, 2778
- " *cooleyi* Bedford 3866
- " *cornigera* Neumann 540c, 1015, 1647, 2104, 2105, 2118, 2119b, 2120, 2883
- " *cornigera* var. *anomala* Warburton [1996], 3658
- " *cuspidata* Warburton 1108, 2692, 2766, 3220
- " *darjeeling* Hoogstraal & Dhanda [2962], 3187a, 3388
- " *dentipalpis* Warburton & Nuttall 693a
- " *doenitzi* Warburton & Nuttall 635
- " *elongata* Neumann 670, 2884, 2885, 3515
- " *erinacei* Pavesi 2890, 3482a, 3537, 3538, 3539
- " *flava* Neumann 763, 893, 2886, 2911a
- " *formosensis* Neumann 2715, 2730, 2914c, 2958
- " *goral* Hoogstraal 1372
- " *hirudo* L. Koch 1987
- " *hoodi* Warburton & Nuttall 424, 1093, 1364, 1546
- " *hoodi* var. *orientalis* Nuttall & Warburton 2847, 2848
- " *houyi* Nuttall & Warburton 2996, 3674, 3952
- " *howletti* Warburton 1979
- " *humerosa* Warburton & Nuttall 669, 3024, 3025
- " *hystricis* Supino 72, 572, 573, 575, 576, 679, [685], [687], 954, 1060b, 1070a, 1274, 2106, [2905z], 2907a, 2951, 2952, 2953, 2956, 2957, 2977, 3386, 3666, 3942
- " *indica* Warburton 575x, 942b, 1661, 2003, 2244, 2266
- " *indoflava* Dhanda & Bhat 763
- " *inermis* Birula 780, 781, 788, 789, 789d, 1226, 1274, 1525, [1526], 1527, 1528, 2752, 2753, 2756, 2757, 2758, 2759, 2762, 2764, 2765, 2779, 2881
- " *inermis* var. *aponommoides* Warburton 1566
- " *intermedia* Warburton & Nuttall 34b,d,h, 148, 167, 188a, 515a, 869, 906, 1253a, 1804, 1958, 2388b, d, 2745, 2822, 2864, 2865, 2889, 2931a, 3073, 3221, 3334
- " *japonica* Warburton 1247, 1374, 3338
- " *japonica* var. *douglasi* Nuttall & Warburton 1248
- " *juxtakochi* Cooley 3705, 3903
- " *kinneari* Warburton 1997, 3338b
- " *kochi* Aragão 3705
- " *koningsbergeri* Warburton & Nuttall 496c, [686], [688], [693], 954a, 1060c, 1563, 2732, 2954, 3188, 3189
- " *kutchensis* Hoogstraal & Trapido 327, 1665, 1666, 1680, 1682, 1686
- " *lagrangei* Larrousse 3599

- Haemaphysalis leachi (Audouin) [8], [48], [102c], 121, [191a], [195a], [310], [474], 507, 532c, [539], 575x, 577, 578, [616], [682], [690], [691], [692], [695], [727], [729a], [731d], [733], [742], [749a], 754, [775c], 786, [790], [870], [873c], [874b], [876], [885b], 894, 895, [896], 1048, 1049, [1050], 1085, 1119, 1223, 1327, 1422, [1617], 1621, [1663], 1737, [1811], [1923], [1933], [1949a], [1950], [1971], [2012], 2169b, 2198, 2244, 2257a, 2258, 2261c, [2264], 2266, 2269, 2310b, 2318a, 2328, [2366], 2377a, 2388c, [2399], [2403c], 2425, [2475], [2482b], [2486], [2488b], 2489, [2490], [2492a], [2496a], [2499b], [2502a], 2581b, 2622, [2652], [2654], 2658, 2659a, [2663], 2732, [2771], [2790], [2795], [2819], [2836], 2841, 2959, 2960, 3035a, 3038, 3041b, 3043a, 3047a, 3048e, 3053c, 3054e, 3065, 3085a, 3145a, 3149, 3154, [3257], 3301, 3308, 3320c, 3325a, 3338a, 3471b, 3479, 3482a, 3537, 3538, 3539, [3644], 3671, 3735, 3742, 3758, 3765, 3851, 3925
- " leachi var. australis Neumann [1110]
- " leachi group 2426, 2659a, 3154, 3742
- " leachi var. indica Warburton 754, 942b, 1661, 2003
- " leachi koningsbergeri Warburton & Nuttall 3189
- " leporis [i.e., leporispalustris] (Packard) 1507, 1954
- " leporis var. proxima Aragão 1894
- " leporispalustris (Packard) 384, 719, 1144, 1196, 1507, 1894, 1954, 2321, 2322, 2323, 2324, 2772
- " longicornis Neumann 129, 1070a, 1851, 1852, 2106, 2907a, 2908, 2909, 2976, 2977, 3395, 3942
- " longipalpis Warburton 1107
- " mageshimaensis Hoogstraal & Santana 1373
- " mjobergi Warburton 3560
- " montgomeryi Nuttall 760, 761, 762, 1407, 2251b, 2928, 3171a, 3331, 3597, 3598, 3605
- " nadchatrami Hoogstraal, Trapido, & Kohls 496b, 3666, 3940a
- " neumanni Dönitz 129, 1372, 1373, 1851, 1852
- " novaeguineae Hirst 2673, 2832, 2903, 3011
- " numidiana Neumann 2890
- " obtusa Dönitz 2816
- " orientalis Nuttall & Warburton 2847, 2848
- " papuana Thorell 220, 295, 309, 496b, [689], 1563, 2116, 3117a
- " paraturturis Hoogstraal, Trapido, & Rebello 1671b, 1672, 2077, 3071
- " parmata Neumann 504, 542, 877, 884c, 1899, 2354, 2887, 2888, 2906c, 3219, 3262, 3271, 3829, 3893b, 3909
- " parva Neumann 780, 782, 783, 784, 787, 789e, 798, 804, 805, 810, 2388b, d, 2822, 2865, 2889, 2931a, 3073, 3221
- " proxima Warburton & Nuttall 540c, 1251a, 2105, 2120
- " punctata Canestrini & Fanzago 304, 580, 782, 783, [789a], 798, 805, 810, 813, 814, 815, 816, 898, 899, 900, 901, 902, 943, 1107, 1564, 1565, 1693, 1926, 1928, 1929, [2080], 2081, 2151, 2152, 2544b, 2552b, 2553a, 2554, 2705, 2706, 2707, 2708, 2709, 2710, 2780, 3393, 3473

- Haemaphysalis rugosa Santos Dias 2625
 " sambar Hoogstraal 1251b
 " semermis Neumann 679, 954, 1060b, 2106, 2951, 2952, 2953, 3666
 " shimoga Trapido & Hoogstraal 1251a
 " silacea Robinson 1629, 2944, 3751
 " simplex Neumann 2891
 " spiniceps Warburton & Nuttall [684], 1647
 " spinigera Neumann 1998, 2388, 2832
 " spinigera var. novaeguineae Hirst 3011
 " s[-----]a p[-----]s 2673
 " spinulosa Neumann 3868
 " subelongata Hoogstraal 3515
 " sulcata Canestrini & Fanzago 3582, 3648, 3673, 3763
 " sundrai Sharif 3171a
 " tiptoni Hoogstraal 670
 " toxopei Warburton 3614
 " traguli Oudemans 3666, 3877
 " turturis Nuttall & Warburton 2002, 2388b, 3072
 " verticalis Itagaki, Noda, & Yamaguchi 3228
 " vidua Warburton & Nuttall 1648
 " warburtoni Nuttall 1400
 " wellingtoni Nuttall & Warburton 221, 294, 495c, 1014, 1057a, b, 2089, 2232, 2233, 2234, 3711
 " sp. 293, 519, 524a, 542, 581, 586, [785], 786, 793, 881d, 950, 1085, [1340], 1452, 1718, 1727, 1926, 1928, 1929, 1946, 2006, 2121, 2122, [2165], 2192, 2508, 2947a, 2950, 2960, 3008, 3129, 3154, 3228, 3285, 3286, 3338a, 3350, 3406, 3448, 3758, [3876], 3877, [3878], 3940a, [3950]

- Hyalomma aegyptium (Linnaeus) 17, [18], 26, 27, 28, 30, 35, 46, [59], [65], 66, 69, 84, 85, [94], 99, 100, 101a, 108a, 111, 112, [114], 117, 118, 119, 171, [172], 174, 176, [193a], 232a, 233, 235, 241, 252, [254], [255], 256, 257, [258], 259, [260], [261], 263, 265, 300, 301, [303], [320c], [328], 331, 332, [335], 347, [362], 366, 370, 372b, 389, 406, 425a, 427b, 442a, 467, 481, 514, 549, 558a, 561, 655, 665, 750, [751], 756, 795, 806, 864, 888, 903, 904, 905, 906b, 907, 942a, 951, 952, [990], [1004], 1005, [1006], [1007], 1024, [1052a], [1053a], [1071c], 1111d, [1122], 1129, 1139, [1140], 1167a, [1172], [1175], 1179, [1252b], 1258, 1296, 1305a, [1321], 1463, 1464, 1466, 1510, 1556, 1557, 1593, 1595, 1624, 1657, 1669, 1670, 1696, 1733, [1815], 1821, 1826a, [1924b], 1926a, [1927], [1929a], 1937, [1939d], [1942], [1943], 1956a, 1990a, [2041b], 2071a, 2090, 2117a, 2150, [2156a], 2159, [2168], [2170b], 2171, 2174, [2188], [2202], [2203a], [2205], [2206], [2208a], [2210], [2212a], [2213], [2241], 2248, [2251a], [2253a], 2284, 2285b, 2286a, [2319], [2333Z], [2344Z], [2348], [2359], [2360], [2362a], [2363], 2368, [2369], [2370a], [2371], [2382a], [2384], [2385a], [2407], [2446], [2449], [2456], 2460, 2462, 2465, [2529], [2530a], 2532, [2534], 2536, [2542], 2552, 2553b, 2555, [2556], 2570a, 2577a, 2585a, 2586a, 2590, 2606, 2614a, [2629], [2630], 2631,

Hyalomma aegyptium (cont'd)

- 2632, [2634], [2635], 2637, [2665], 2723, 2818, [2828],
 2851a, 2852, 2853, 2854, 2855, 2859a, 2860, [2861], 2862,
 2863, [2904], [2923], [2924], 2926, 2975, 3013, 3016a,
 [3067], [3079b], [3080b], [3137], 3166, 3167a, 3174, 3202,
 3226, 3234, 3239, 3240, 3242, 3272a, 3278, 3279, 3280,
 3312, 3318, 3319, 3320b, 3347, 3348, 3363, 3413, 3418a,
 3420, 3423, 3425, 3431, 3486, [3512], 3542, 3551, 3552,
 3589, 3612, 3634, 3645, 3646, 3686, 3697, 3699, 3700,
 3707, [3712], 3762, 3773, 3783, 3848, 3908, 3963
- " aegyptium impressum Neumann 3884, 3886, 3887
- " aegyptium isaaci Sharif 3661
- " albiparmatum Schulze 2577a, 2585a, 2586a, 2590, 2606, 2614a, 3773
- " anatolicum anatolicum C. L. Koch 17, 34h, 108a, 111, 118, 171, 175,
 176, 256, 257, 259, 300, 301, 864, 1990a, 2150,
 2368, 2460, 2462, 2532, 2637, 3013, 3234, 3418a,
 3423, 3425, 3552, 3908
- " anatolicum excavatum C. L. Koch 46a, 84, 85, 331, 389, 655, 795, 1024,
 2284, 2285b, 2552, 2555, 2853, 2863, 3240, 3551, 3612
- " brevipunctata Sharif 167, 906b
- " detritum Schulze 795, 806, 1821, 3370
- " dromedarii C. L. Koch 17, 30, 35, 117, 241, 481, 904, 1005, 1624,
 1696, 1926a, 2460, 2465, 2631, 2723, 2975, 3016a, 3272a,
 3413, 3425, 3431, 3645, 3646, 3707, 3762, 3962, 3963
- " hussani Sharif 3348, 3660
- " impeltatum Schulze & Schlottke 3239, 3240, 3413, 3788
- " impressum C. L. Koch 3542
- " impressum albiparmatum Schulze 3717
- " kumari Sharif 759, 3347, 3552, 3659
- " lusitanicum C. L. Koch 3226, 3706
- " marginatum C. L. Koch 27a, 66, 68, 332, 795, 1024, 1179, 1258, 1305a,
 1556, 1557, 1593, 2117a, 2171, 2286a, 2553b, 2851a, 2852,
 2854, 2855, 2859a, 2860, 2862, 2922, 2926, 3202, 3278
- " marginatum isaaci Sharif 514, 942a, 2460, 2462, 2465, 2636, 3420,
 3423, 3661
- " marginatum turanicum Pomerantsev 34h, 79
- " monstrosum Nuttall & Warburton 1219, 1220
- " rufipes C. L. Koch 26a,b, 99, 232a, 233, 241, 252, 370, 372b, 467, 558a,
 888, 907, 1111d, 1466, 2570a, 2577, a, 2606, 3272a, 3634, 3697,
 3762, 3786, 3886
- " scupense Schulze 3370, [3577]
- " syriacum C. L. Koch 69, 119, 263, 347, 549, 561, 756, 903, 1139, 1296,
 1510, 1595, 1657, 1733, 2159, 2174, 2248, 2818, [3139],
 [3140], [3141], 3281, 3282, 3283, 3284, 3285, 3359, 3363,
 3486, 3699, 3700
- " truncatum C. L. Koch 20, 26a,c,d, 99, 100, 101a, 234, 235, 372b, 427b,
 665, 750, 951, 1167a, 2071a, 2090, 3166, 3167a, 3312, 3318,
 3319, 3320b, 3413, 3633, 3634, 3678, 3680a, 3686, 3697, 3717,
 3762, 3848, 3884, 3887

- Hyalomma sp. 112, 366, 372b, 406, 905, 952, 1129, 1398, 1463, 1464, 1662, 1669,
1670, 1678, 1684, 1826a, 1937, 2161, 2632, 2931, [3136], 3174,
3175, 3242, 3279, 3280, 3281, 3282, 3283, 3284, 3285, 3321a, 3359,
[3406a], 3424, 3589, 3678, 3680a
" n. sp. 759, [766]

- Ixodes acuminatus Neumann 3581, 3596
" acutitarsus (Karsch) 1104, 2946, 3019, 3791, 3792, 3857
" affinis Neumann 3902
" alluaudi Neumann 3361
" ampullaceus Warburton 3873
" anatis Chilton 2069, 2751, 3394, 3626, 3863
" angustus Neumann 284, 506, 678, 715, 991, 1065, 1134, 1195, 1300, 1301
1361, 3662, 3663, 3665
" arboricola Schulze & Schlottke 224, 1371
" arvicolae Warburton 3594, 3595, 3596
" auriculogae Arthur 3906
" auritulus Neumann 2518, 2520, 3178, 3179, 3662, 3663
" auritulus zelandicus Dumbleton 3862
" australiensis Neumann 645, 646
" banksi Bishopp 1537
" bicornis Neumann 637, 915, 2811, 2812
" boliviensis Neumann 637, 915, 2810, 2811, 2812, 2813
" bovis (Riley) 207, 208
" brunneus C. L. Koch 224, 267, 278, 279, 280, 282, 283, [396], 523,
726, 2157, 2546, 3007, [3287]
" caledonicus Nuttall 961, 1142, 1200, 1294, 1295, 1363, 1542, 2979,
[3677], 3694, a, b
" canisuga Johnston 19, [62], 402a, 414, 422, 447, [499], 501, 768,
[1044], 1045, 1046, 1047, 1051, 1068, 1079, [1123], 1137,
1138, 1141, [1141a], [1143a], 1143b, [1143c], [1299],
1302, 1303, 1304, 1371, [1730], 2372a, 2376a, 2380, 2528,
[2770], 2815, [3155], 3620, 3695
" cavipalpus Nuttall & Warburton 245, 350, 353, 394, 1601, 2169a, 2702,
3256, 3377, 3378, 3681, 3894a, 3895, 3945
" cookei Packard 717, 1504,
" cookei var. rugosus Bishopp 1538
" crenulatus C. L. Koch 3620
" cumulatimpunctatus Schulze 503, 877d, 2353, 3829a
" dentatus Marx 3435, 3624
" dentatus var. spinipalpis Hadwen & Nuttall 3180, 3181
" eichhorni Nuttall 2672, 2675
" eudypitidis Maskell 2068, 3923
" fecialis Warburton & Nuttall 339, 650, 1211, 1213, 1847, 3561
" fecialis var. aegrifossus Warburton & Nuttall 339, 1213
" frontalis (Panzer) 224, 523, 2546
" gibbosus Nuttall 2553
" gigas Warburton 1104, 2946
" globulosus Supino 2964
" granulatus Supino 2066, 2966, 3193, 3544
" guernseyensis Arthur 3596
" hearlei Gregson 992

- Ixodes hexagonus Leach 7, 55, 56, 60, [64], 80, [81], 82, 125, 128, [216], [217], 262, [298], [322], [324], [357], [358], 399, [402], 404, 446, 456, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 668, [674], [746], 826, 916, 917, 918, [962], 1067, 1159, 1160, 1168, 1186b, 1193, 1194, [1237], 1239, 1240, 1241, 1347, 1360, 1378, 1385, 1504, 1591, 1700, 1823, 1916, 2164, 2327Z, 2328Z, 2329Z, 2330Z, 2331Z, 2724, 2733, [2735], 3108, 3119, [3182], [3209], 3231, 3232, 3236, 3237, 3566, 3579, 3586, 3858, [3918]
- " hexagonus var. cookei Packard 2047, 2048, 2049, 2054, 2776, 3642
- " holocyclus Neumann 643, [644], 1080, 1081, 1212, [1846], 1848, 3089
- " japonensis Neumann 2947, 2948, 2949, 3019a
- " kempi Nuttall 2066
- " kingi Bishopp 716, 1377, 1539, 3789
- " lewisi Arthur 926, 2794, 2844, 3929, 3930, 3932
- " lividus C. L. Koch 605, 1068, 1141, 1143a,c, 1302, 1303, 1304
- " loricatus Neumann 638, 639, 640, 641, 2687, 3407, 3408
- " loricatus var. spinosus Nuttall 647, 3447
- " luciaae Senevet 647, 3447
- " marxi Banks 2087
- " nairobiensis Nuttall 3906
- " nitens Neumann 360
- " nuttalli Lahille 2513, 2514, [2515], 2517
- " nuttallianus Schulze 1401, 1402
- " ochotonae Gregson 3665
- " oldi Nuttall 2065, 3200
- " ornithorhynchi Lucas 2984, 3333
- " ovatus Neumann 2947, 2948, 2949, 3019a
- " pacificus Cooley & Kohls 1570a
- " percavatus Neumann 634, 1850, 3862
- " percavatus var. rothschildi Nuttall 1736
- " petauristae Warburton 3872
- " pilosus C. L. Koch 919, 920, 921, 922, [923], [924], [925], 926, [927], [1111b], [1323], 1912, [2701a], 2702, 2844, 3256, [3679], [3771], [3891], 3894a, 3895, [3897a], 3929, 3930, 3931, 3932
- " pomerantzi Kohls 3624
- " procaviae Arthur & Burrow 1222
- " putus (Pickard-Cambridge) 454, 459, [516], [517], 935, [936], 937, 1308, 1703, 2722, 2799, 3010, 3428
- " rasus Neumann [505], 877d, [928], 2353, 2480, 2803, 3005, [3192], 3829a
- " ricinoides Nuttall 1401, 1402
- " ricinus (Linnaeus) [57], [58], [123], [269c], [272], [286], [291], [355], [400], [401], [402], 405, [415], [416], 417, [423], 509, [628], [629], [630], [631], [632], [656], 768, [769], [770], [771], [799], 929, 930, 931, 932, 933, [934], [998], [1034], [1035], [1036], [1037], [1038], [1039a-c], [1040], 1041, [1042], [1043], [1053d], [1054], [1124], [1169], [1178], [1181], [1182], [1183], [1184], [1185], [1186a], 1308, [1543],

Ixodes ricinus (cont'd)

- 1560, 1570a, 1576, 1577, [1690], 1691, [1692], 1701, 1702, 1729, [1743], [1806], 1807, 1808, [1817], [1868], [1952], 2042a, [2062], 2157, [2160], 2236, 2272, 2372, 2374, 2376, 2380a, 2387, 2544a, 2734, [2735], 2736, 2777, [2908a], [2909b], [2929], [2997], [3009], [3183], [3184], [3190], [3205], [3206], [3207], [3208], [3229], [3233], [3353], 3396, [3412Z], 3564, [3651], [3767]
- " ricinus var. gibbosus Nuttall 2553
- " ricinus var. scapularis (Say) 3902
- " rothschildi Nuttall & Warburton 634, 936, 1736
- " rubicundus Neumann 1082, 2169a
- " rubidus Neumann 826
- " rugosus Bishopp 1135, 1378, 1538, 2776
- " scapularis Say 626, 718
- " schillingsi Neumann 1171, 2379, 2719, 3681, 3682, 3683, 3684
- " sculptus Neumann 2047, 2048, 2049, 2054
- " signatus Birula 290, 1227
- " soricis Gregson 3662
- " spinicoxalis Neumann 3555, 3625
- " spinipalpis Hadwen & Nuttall 726, 3180, 3181
- " tasmani Neumann 2190, 3198, 3563, 3591, 3938
- " tenuirostris Neumann [88], 356, 619, [620], 621, 622, 623, 624, 625, 627, 1069, 1161, 1165, 1358, 1359, 2509, [3133], [3224], 3361, 3532, 3533, 3534, 3535, 3592, 3593, 3653, 3654, 3655, 3794
- " testudinis (Supino) 2967
- " texanus Banks 270, 992, 1066, 1399
- " theodori Warburton 3581
- " trianguliceps Birula 356, 619, 621, 622, 623, 624, 625, 627, 1069, 1161, 1165, 1358, 1359, 2509, 3532, 3533, 3534, 3535, 3592, 3593, 3653, 3654, 3655, 3794
- " ugandanus Neumann 1215, 1216, 3873
- " ugandanus djaronensis Neumann 1222, 2794
- " unicavatus Neumann [395], 652, 667, [962], [1132], 2067, [2722a]
- " uriae White 454, 459, 617, 618, 714, 935, 937, 968, 1307, 1703, 2722, 2799, 3010, 3428
- " varanensis (Supino) 2968
- " vespertilionis C. L. Koch 649, 1594, 2933, 3132, 3309, 3513, 3531, 3575, 3629, 3964
- " vestitus Neumann 642
- " victoriensis Nuttall 3194
- " sp. 55, 56, [61], [63], [275], [285], 1066, 1135, 1162, 1167, 1211, 1212, 1216, [1339], [1341], 1389, 1399, 1453, 1455, 1718, 1740, 1742, 1744, 1850, 2480, 2519, 2528, 2964, 2979, 3007, 3200, 3576, [3580], 3625, 3664, 3678, 3680a, 3863, 3924, 3931, 3940a

Margaropus winthemi Karsch 52, [731a], 3778

Nosomma monstrosum (Warburton) 1219, 1220

Omitted catalogue numbers 533, 1555, 2055, 2101, 2111, 3122, 3245-3254

Opisthodon canestrinii Supino 2960

" *gestroi* Supino 2959

Rhipicentor bicornis Nuttall 297, 320f, 321, [731a], 1588, 1616

" *nuttalli* Cooper & Robinson 2892, 2945, 3693

" *vicinus* Neumann 2892

Rhipicephalus annulatus var. *decoloratus* C. L. Koch [247]

Rhipicephalus appendiculatus Neumann [103], [160b], [161b], [162b], [189], 231, 352, [363], 365, 407, 421, 437b, [449], 458b, 498, 585, 671, 675a, [677b], [680c], 732, 734b, 743b, [775a], 836, 837, 838, 839, 849, [871a], 872b, [873a], [874d], 874f, 875b, [877a], 878a, [878b], 879c, 881, b, [883a], 884b, 885c, [886c], 948, [1118], 1235, 1314, [1445], 1461, 1462, [1467], [1468], [1469], [1470], [1471], 1472, 1473, 1474, 1492, [1493], 1581, 1586, 1611, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1646, 1708, 1709, 1713, 1748, 1749, 1755, [1756], 1757, 1758a, [1759], [1760], 1761, 1762, 1763, 1764, 1765, [1766], 1767a, [1768], [1769], 1770, 1772, 1773, 1776, 1777, 1779a, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1789, 1790, 1793, 1794, 1795, 1796, 1798, 1799, 1805, [1919], 2025, 2073, 2075, 2149, 2240, 2243, 2288c, 2291b, 2298b, 2303a, 2304a, 2308a, 2309b, 2312, 2313b, 2316c, 2352, 2354a, 2355, 2356, 2403, 2404, 2472, 2473, 2477, 2548, 2567a, [2585b], 2586e, 2588b, 2614, 2616a, 2664b, 2893, [3264a], [3265], 3269a, [3273a], 3274, [3275], [3276], 3344, 3474, 3474b, 3475a, 3528, 3606, 3734, 3736, 3743, 3746, 3759, 3799, 3801, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3809, 3810, 3812, 3813, 3814, 3818, 3819, 3822, 3823, 3824, 3825, 3826, 3830, 3831, 3832, 3833, 3834, 3835, 3836, 3837, 3838, [3844], 3892, 3894, 3897, 3947

" *armatus* Pocock 1426

" *ayrei* Lewis 3845, 3933

" *breviceps* Warburton 1103

" *bursa* Canestrini & Fanzago [15], 59, 65, 66, 67, 68, 195b, [197], 367, 388, 793, 801, 802, 803, 1026, 1052b, 1053b, 1173, 1174, 1257, 1305b, 1558, 1559, 1592, 1816, 1818, 1819, 1820, 1938, 2202a, 2284a, 2286, 2544, [2545], 2851, 2852a, 2854a, c, 2855a, [2856], 2859, 2860a, 2862a, 2863c, 2922, 2924a, 3785

" *camelopardalis* Walker & Wiley 2577d

- Rhipicephalus capensis Neumann 107, 329, 330, [393], 478, 752, 774, 840, 841, 842, 843, 1092, 1121, 1309, 1314, 1494, 1606, 1650d, 1694d, 1971a, 2538a, 2613b, 2651, 2786, 2837, 2838
- " carnivoralis Walker 2403, 2404, 2548
- " cliffordii Morel 2398
- " complanatus Neumann 2791, 2800, 2804, 2820, 2826, 3668
- " compositus Neumann 248b, 478, 497, 752, 1092, 1121, 1309, 1425, 1606, 1971a, 2287, 2343a, 2394, 2786, 3845, 3933
- " coriaceus Nuttall & Warburton 320e, 1027, 1324
- " cuneatus Neumann 2906, 3012
- " cuspidatus Neumann 3316, 3318a, 3675
- " deltoideus Neumann 2894
- " distinctus Bedford 3867
- " duttoni Neumann 1614, 3345
- " dux Dönitz 1716, 2902a, 2906a, 3436
- " evertsi Neumann 26, [99], [106b], [192b], [232b], [361], [364], [408], 409, [410], 411, [458a], [467a], [473a], [537], [651], [753], [775b], 844, 845, 846, 847, [848], [873a], [874e], [875c], 877e, [885d], 1055, [1111a], [1429], 1553, [1554], 1612, 1646a, 1774a, [1778], 1781c, 1782b, 1783c, 1792, [1939a], 2025a, [2071], [2093], 2095, [2096], [2097], [2170a], 2202a, [2288b], [2297], [2298], [2300a], [2301a], [2302a], [2303b], [2304], [2307], [2311b], [2316b], [2319a], 2362, 2405, 2409a, 2417, 2418a, 2419a, 2420, 2422, 2423, 2428, 2432a, 2437, 2540, 2557, 2560, 2561, 2562, 2564, 2566a, 2570b, 2571, 2573, 2575, 2576, 2577c, 2579, 2580, 2583, [2586b], 2589, 2590a, 2591, 2594, [2597a], 2598a, 2602, 2604a, 2606a, 2610, 2611, 2612, 2613a, 2614d, 2646b, [2740], 2741, 3030, 3031, 3066, [3157], 3215b, 3226, 3297, 3305, 3307, 3343, [3480], [3481a], [3527], 3588, 3679a, 3680, 3681a, 3687, 3688, 3689a, 3690, 3691, 3736a, 3748, 3752, 3760, [3774], 3782, 3785, 3815, 3817, 3843, 3847
- " evertsi var. albigeniculatus Nuttall & Warburton 1619, 1650c, 1694b
- " evertsi mimeticus Donitz 1619, 1650c, 1694b
- " falcatus Neumann 320d, 1028b, 1099a, 1322, 1441, 1587, 1609, 1613, 1712, 1950a, 2143a, 2144b, 2194, 2256a, 2261a, 2262b, 2268, 2287, 2331c, 2333b, 2337b, 2338, 2343a, 2344b, 2398, 2493b, 2494a, 2495, 2497b, 2498, 2505c, 2506c, 2655a, 2664a, 2665a, 2667a, 2669a, 2670a, 2713, 2796, [2895], 3036a, 3040a, 3044a, 3048b, 3050b, 3052a, 3053a, 3054a, 3055a, 3056a, 3058b, 3062, 3113, 3147a, 3177, 3312a, 3669, 3471, 3852
- " follis Dönitz 1913, 2110
- " fulvus Neumann 2158, 2172
- " gertrudae Feldman-Muhsam 1609
- " glyphis Dönitz 2108
- " guilhoni Morel & Vassiliades 2209

- Rhipicephalus haemaphysaloides Supino 34d,g, 108b, 227, 495b, 496a, 512, 540b,f,i, 584, 764, [866], 867, 868, 906a, 942c, 1060a, 1249, 1572, 1671, 1673, 1681, 1958a, 2350, 2388a, 2529c, 2643, 2963, 2965, 2971, 3019b, 3114, [3158], 3171, 3387, 3420a
- " humeralis Rondelli 193d, 3267, 3272c, 3352, 3432, 3636, 3787, 3788
- " hurti Wilson 1309, 3433, 3678a, 3737, 3852, 3882, 3883
- " hurti/jeanneli group 3893a
- " jeanneli Neumann 330, 1119, 2076, 2788, 2793, 2825, 2835, 2837, 2838, 3678a, 3740, 3882, 3934
- " kochi Donitz 368, 498, 741, 951a, 1218, 1408, 1410, 1412, 1413, 1414, 1420, 1444, 1459, 1600, 1602, 2109, 2393, 2411, 2431, 2453, 2560a, 2566, 2571a, 2575a, 2577b, 2587, 2591a, 2623, 2624, 2792, 2793, 2801, 3268, 3310d, 3433, 3471, 3737, 3740, 3881, 3882, 3883, [3885], 3934
- " leporis Pomerantsev 796
- " longiceps Warburton 351, 393
- " longicoxatus Neumann 2577d, 2824, 2825a, 3006
- " longus Neumann 1099b, 1415, 1460, 1613, 1650d, 1694d, 2188, 2333b, 2338, 2394, 2613b, 2651, 3167, 3316, 3474b, 3669
- " lunulatus Neumann 730a, 731b, 738, 1028a, 1449, 1451, 1608, 1618, 1711, 1950c, 2108, 2255, [2258a], 2270, 2325, 2327, 2329a, 2330a, 2331, 2332a, 2333a, 2334, 2335, 2336a, 2337b, 2338a, 2341a, 2343, 2344a, 2482a, 2484a, 2485b, 2487, 2492b, 2495a, [2497a], 2501, 2665a, 2667b, 2670b, 2743, 2798, 2807, 2842, 3034, 3037, 3044, 3048a, 3050c, 3051, 3052b, 3054, 3055, 3057a, 3058, 3062, 3167, 3935
- " maculatus Neumann 1318a, 1418, 1419, 1430, 1572, 1573, 1754, 2299, 2595a, 3215c, 3267, 3272c, 3352, 3432, 3474, 3718, 3777, 3854, 3879, 3936, 3958
- " masseyi Nuttall & Warburton 246, 1450, 3095, 3434
- " muehlensi Zumpt 585, 1450, 2824, 2825a, 3006, 3434, 3869, 3881
- " muhsamae Morel & Vassiliades 198, 663, 2830, 3313, 3318a, 3323, 3325
- " neavei Warburton 368, 741, 951a, 1218, [1311], [1313], 1408, 1410, 1412, 1413, 1414, 1420, 1442, 1444, 1447, 1459, 1600, 1602, 1714, 2092, 2242, 2257, 2261b, 2262d, 2393, 2411, 2438, 2453, 2560a, 2566, 2567a, 2570d, 2571a, [2573d], 2575a, 2577b, 2587, 2591a, 2607, 2623, 2624, 2639a, 2702a, 2792, 2801, [3033], 3215d, 3261c
- " neavei var. punctatus Warburton 1201, 1202, 1411, 3293, 3546
- " nitens Neumann 849, 1495, 2896
- " oculatus Neumann 850, 3741, 3744, 3745, 3749, 3891a
- " oculatus var. pravus Nuttall 3747, 3750
- " pilans Schulze 495b, 496a, 540b,f,i, 3114
- " planus Neumann 3167
- " planus complanatus Neumann 3167
- " pravus Donitz 680b, 1201, 1202, 1246, 1442, 1447, 2243, 2385b, 2538a, 2570d, 2577b, d, 2607, 2792, 2796, 3215d, 3261c, 3293, 3546, 3733, 3734, 3736, 3891a, 3895a

- Rhipicephalus pulchellus* Gerstacker 48, 50, 51, 102a, 106c, 192c, 193b, 451, 534, 535, 536, 851, 953, 1156, 1326, 1328, 1329, 1330, 1331, 1333, 1334, 1335, 1336, 1433, 1446, 1595, 1723, 1779b, 1781a, 1782, 1787c, 1790c, 1794a, 2057, 2318, 2370, 2375, 2377, 2378, 2382, 2384a, 2385, 2403b, 2406, 2408, [2423a], 2570, 2573a, 2597, 2599a, 2602a, 2603, 2604, 2607a, 2999, 3215a, 3261b, 3272, 3634, 3635, 3692, 3719, 3761, 3772, 3775, 3776, 3780, 3787, 3788, 3850, 3960
- " punctatus Warburton 98, 330, 352, 1121, 1411, 2211Z, 2242, 2411, 2438, 2639a, 2702a, 2789, 3259, 3301d, 3747, 3750, 3867, 3891a, 3895a
- " reichenowi Zumpt 2789
- " rossicus Yakimov & Kol-Yakimova 1509, 2064, 2897
- " sanguineus (Latreille) 9, 10, [11], [12], 21b, 24, 25b, 28b, 31, 47, 59b, 65b, 68a, 87, 109, 110, 113, 115, 116, 124, 127, 130, 144, 145, 146, 147, 149, 154b, 170, 173, 174, 181, 183a, 195b, 201, 230b, 237, 239, 299, 302, 323, 341, [342], [343], 371, 426, 431, [434], 436, 442b, 443, [445], 463, 464, 479, [485], 488, [497a], [511], 512, [513], [520], 525, 530, 586, [587], [654], 660, 662, 720, [728], [731], 748, 796, [797], 852, 853, 854, 855, 856, 857, 862, [865], 952a, 953a, b, [986], 988, 989, 999, 1000, 1001, [1002], 1003, 1013, 1021, 1023, 1058, 1072, 1073, 1103, 1125, 1126, [1127], 1128, 1176, 1189, 1191a, 1210, 1225, 1253b, 1255, 1256, 1272, 1297, 1362, 1380, 1381, 1382, 1511, 1540, 1541, 1644, 1645, 1650e, 1674, 1675, 1676, 1677, 1683, [1688], 1705, 1707a, 1791, 1797, 1825, 1854, 1871, 1872, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1924, 1926c, 1932, 1939b, 1941, 1942a, 1943a, 1949, 1950b, 1966, 1985, 1988, 1989, 1990, 1991, 2008, 2009, 2028, 2031, 2032, 2036, 2039, 2070, 2079, [2098], 2129, 2134, 2171a, 2193, 2197, 2201, 2205b, 2245, 2246, [2247], 2251, 2252, 2253, 2277, 2280, 2281, 2282, 2283, 2285a, 2334Z, 2335Z, 2336Z, 2337Z, 2338Z, 2339Z, 2340Z, 2341Z, 2347, 2349, 2358, [2364], [2365], [2367], [2443], [2447], [2451], [2454], 2455, [2458], [2461], [2462], [2468], 2469, [2470], [2474], [2482], 2486a, 2488, 2489, 2490a, 2496, 2502, [2531], [2533], [2535], 2541, [2547], 2565, 2566b, 2581a, 2598, 2601, 2614b, [2628], [2636], 2647, 2659c, [2664c], [2666b], 2670a, 2680, [2694], 2695, 2696, 2700, 2725, 2805, [2809], [2814], [2817], 2843, [2850], [2854b], 2857, [2858], [2863b], 2914b, [2924b], 2925, [2935], 2980, [2998], 3035, 3041a, 3043, 3048d, 3051a, 3054a, b, 3059, 3060, 3103, 3104, 3109, 3115, 3142, 3143c, 3154a, 3175, 3203a, 3241, 3258, 3262, 3277, 3301b, 3306, 3308a, 3314, 3320a, 3321, 3322, 3324, 3360, 3419, 3421, 3424a, 3426, 3479a, 3482, 3484, 3485, 3487, 3557, 3571, 3572, 3573, 3647a, 3698, 3714, 3715, 3733, 3766, 3785, 3796, 3881, 3889, one collection without Nuttall number.

Rhipicephalus sanguineus var. *sulcatus* Neumann 3051a, 3109

" *schwetzi* Larrousse 3436

" *sculptus* Warburton 1409, 1448, 2041, 2072a, 3230

" *senegalensis* C. L. Koch 320d, 427c, 858, 1028b, 1099a, 1322, 1441, 1587, 1609, 1712, 1837, 1950a, 2124a, 2143a, 2144b, 2194, 2256a, 2261a, 2262b, 2268, 2287, 2327, 2331c, 2333a, b, 2337b, 2338, 2340a, 2342b, 2343a, 2344b, 2398, 2484a, 2485b, 2493b, 2494a, 2495, 2497b, 2498, 2505c, 2506c, 2655a, 2664a,b, 2666a, 2667a, 2669a, 2670a, 2713, 2796, 3034, 3036a, 3040a, 3044,a, 3048a,b,d, 3050b, 3052a,b, 3053a, 3054,a, 3055,a, 3056a, 3058b, 3062, 3143b, 3147a, 3148a, 3152b, 3163, 3167, 3312a

" *shipleyi* Neumann 1562

" *simpsoni* Nuttall 1214, 2481, 2537, 3375, 3959

" *simus* C. L. Koch 26d, 97, 101b, 191b, 193d, 230a, 232c, 239, 427c, 448, 530, 615, 730, 731c, 734b, 738, 740, 748a, 749, 858, 859, 860, 874f, 951b, 953b, 1028, 1099a,b, 1119, 1120, 1121, 1416, 1424, 1434, 1449, 1562, 1616, 1914, 1922, 1939c, 2025b, 2026, 2073a, 2124a, 2188, 2212, 2297a, 2310, 2340a, 2342b, 2394, 2395, 2401, 2402, 2403a, 2409, 2481, 2537, 2547a, 2581, 2591b, 2600, 2601a, 2614c, 2647, 2648, 2788, 2789, 2806, [2839], 2840, 3143b, 3148a, 3152b, 3161, 3170, 3177, 3259, 3301a, 3302, [3320], 3471a, 3474a, 3636, 3678a, 3739, 3764, 3775, 3782, 3852, 3893a, 3896, 3944

" *simus falcatus* Nuttall 1415

" *simus* var. *lunulatus* Neumann 3935

" *simus* group 3167

" *sulcatus* Neumann 393, 952a, 1431, 1439, 1615, 1650e, 2169, 2659c, 2700, 2701

" *supertritus* Neumann 320e, 458b, 740, 1027, 1091, 1094, 1100, 1324, 1590, 2072, 2394, 2396, 2623a, 3920

" *theileri* Bedford & Hewitt 3870

" *tricuspis* Donitz 740, 2645, 3368

" *turanicus* Pomerantsev 127, 796, 3485

" *ziemanni* Neumann 2257, 2261b, 2262d, 2398, 2825, 2898, 2906 3012, 3094

" sp. [49], [96], 97, [100], 101b, [102d], 334, 536, 743b, 774, 884b, 1099, 1225, 1314, 1370, 1395, 1454, 1456, 1679, 1714, 1750, 1837, [1891], 2092, 2173, [2255a], 2320, 2373, [2375a], 2410, 2539a, 2931, 3113, 3177, 3406, 3479a, 3869, 3949, [3951]

Undetermined genus [4], [5], 20, 25, 32, 98, [178], 1166, [1170], 1204, 1387, 1390, 1391, 1398, 2239, [2383], [2729], 3227, [3488], 3543, [3556]

Appendix III

Host Names for Ixodoidea in the Nuttall
Tick Collection

The following individuals and sources were consulted in preparing host names used throughout this catalogue: Amphibia and Reptilia: E. N. Arnold, B. T. Clark, A. G. C. Grandison, and A. F. Stimson, Reptile and Amphibian Section,

Zoology Department, British Museum (Nat. Hist.). Aves: Peters (1931-79). Mammalia: P. D. Jenkins, Mammal Section, Zoology Department, British Museum (Nat. Hist.), Cabrera (1957, 1960), Corbet (1975, 1978), Dorst and Dandelot (1970), Ellerman and Morrison-Scott (1951), Meester and Setzer (1971), Miller and Kellogg (1955), and Ride (1970). Nuttall numbers in brackets indicate missing collections.

CLASS AMPHIBIA

ORDER SALIENTIA

Bufo marinus 2621, 2874, 3110, 3525
toad 1597, 1704, 1870, 2617, 2703, 2704, 3540

CLASS REPTILIA

ORDER CHELONIA

Emys sp. 996, 997
Geochelone chilensis 2867
 denticulata 3459
 elegans 43, 1512, 3608
 pardalis 1659
Geoemyda flavomarginata 3399
Gopherus polyphemus 3356
Heosemys spinosa 1106, 2938
Homopus areolatus 3584
Kinixys erosa 3126
Melanocheilus tricarinata 3578
Nicora trijuga 2960, 2967

Order Chelonia (cont'd)

Testudo elongata 2960, 2967, 3391, 3392graeca 1296, 1657, 2818graeca ibera 1510pardalis [77], [3140]

sp. 756, 2159

tortoise [13], 69, [75], 95, 119, 202, 228, 229, 263, 265, 347,
549, 561, 681, [744], 1139, 1155, 1157, 1595, 1733, 2174,
2248, 2326, 3042, 3093, [3139], 3363, 3416, 3489, 3490,
3699, 3700, 3709, 3727, [3770], 3861

tortoise, leopard 570

turtle 1871, 1878, 2620

ORDER RHYNCHOCEPHALIA

Sphenodon punctatus [3556], 3864

ORDER SQUAMATA

SUBORDER SAURIA

Agama agama 3081, 3086, 3087

sp. 3486

Amevia surinamensis [281], [287]chameleon 1836, 1884Cyclura nubila nubila 2866Egernia stokesii 771xEuprepes sp. 1101iguana 40, 153, 460, 482, 1283, 1316, 1317, 1421, 1443, 1883,
2017, 2112, 2466, [2674], 3478, [3554], 3965iguana (? varanus) 1205, 1206Iguana iguana 1726, 3492tuberculata 3609

sp. 1268

Lacerta agilis [1743]lepada 1727, 1740, 1744, 2508muralis [2997]

sp. 3396, [3412Z]

"Leguan" 3118, 3122

lizard 508, 1599, 1625, [1839], 1877, 1900, 2038, 2050, 2051,
[2052], 2386, [2708], 2876, 3076, 3077, 3078

lizard (iguana?) 1427

lizard, water 636, 1238

monitor [76], [93], 550, 736, 1547, [2381]

monitor, Bengal 1728

monitor, land 1752, 1753

Monitor strix 554Takydromus tachydromoides 1742

Suborder Sauria (cont'd)

- Tiliqua scincoides 3516, 3524
Trachysaurus rugosus 158, 3124
Uromastix hardwickii 3199
Varanus bengalensis 38, 2357, 2697, 2698, 2967, 2981, 2983, 3070,
 3130, 3346, [3358], 3389
 civitatus [91], [92]
 exanthematicus 37, 661, 2196, 2199, 2200, 3853
 gouldi 42, 120, [2113]
 griseus 45, 1685
 komodoensis 3617, 3875
 niloticus 44, 521, 1604, 2014, 2015, 3082
 salvator 494, 1017, 2187, 2276, 2968
 varius 1843, 1844, 1845, 2189
 sp. 996, 997, 1095, 1096, 1698, 1842, 2478, 2690, 2823,
 2942, 2943, 2985, 2986, 2988, 2990, 2991, 2992, 3002,
 3131, 3317, [3650], 3917

SUBORDER SERPENTES

- anaconda [3141]
Bitis arientans 1747
 gabonica 940
Boa constrictor 653, 1522, 1523, 1822, 1935, 2686
 sp. 289, [548], 3446
Boiga dendrophila 491
Boodon lineatus [1405]
Bothrops lanceolatus 1516, 1524
Bungarus fasciatus 472
Coluber genonensis 1520
Dendroaspis angusticeps 3871
Dendrelaphis pictus 3327
Denesonia superba 1745
Diemenia superciliosa [571]
 textilis 569, 642
Dispholidus typus 3083
Elaphe helena 3365
Elaps sp. 1984, 2685
Eryx conicus 41
Lachesis mutus 2086
Laticauda laticaudata 3657
Morelia spilotes variegata 567
Naja naja 471, 1074, 1366, 1518, 1521, 1907, 2275, 3271, 3336,
 3337, 3366
 sputatrix 493
 sp. 1244, 1245
Notechis scutatus 1739, 1841
Ophiophagus bungarus [90]
 hannah 1074, 1519, 1907

Suborder Serpentes (cont'd)

Oxybelis aeneus 2176
Pitnophis sayi 1133
Psammophis sibilans 438, 439
Ptyas korros 490, 1016, 1945
mucosus 1109, 1365, 1514, 1515, 1945, 2699, 2746Z, 2747,
 2748, 3364, 3565
 python 308
Python molurus 470
regius 39
reticulatus 484
spilotes 3519
spilotes variegatus 3523
 sp. 3039, 3616
Rhamphiophis oxyrhynchus 3084
Simocephalus butleri [1403]
 snake 2010, 2185, 2879, 2987, 2989, 3238, 3315, 3374, 3494, 3568,
 3632

ORDER CROCODYLIA

alligator 1879

CLASS AVES

bird [397], [2160], [2400], 3007
 sea birds 2522, [2523]

ORDER STRUTHIONIFORMES

Struthio camelus 442

ORDER APTERYGIFORMES

Apteryx australis mantelli 2751, 3863

ORDER SPHENISCIFORMES

Eudyptes sp. 2799
Eudyptula minor 1849, 1850
 penguin 3438, 3923

ORDER PROCELLARIIFORMES

Diomedea exulans 2722
salvinii 516
Pachyptila desolata 3862
Phoebastria fusca 3010

ORDER PELECANIFORMES

cormorant [262], [962], [1132]
Phalacrocorax aristotelis 652, 667
 carbo 2067
 penicillatus 290

ORDER ANSERIFORMES

Branta canadensis 3626
 duck 223, [480]

ORDER GALLIFORMES

Bonasa umbellus 2737
 chicken (see fowl) 273, [469], 2232, [3619],
Crax alector 3227
 rubra 3898
 fowl 53, [135], 136, 221, 294, [313], [315], 424, 440, [480],
 1009, 1014, 1057, 1125, 1130, 1131, [1904], 1905, 1977, 2013,
 [2082], 2207, 2231, 2440, 2448, 2459, 2633, 2693, 2936, 3162,
 [3509], [3510]
Gallus gallus 2121
 grouse 2777
Guttera edouardi sethmithi 1718
 hen (see fowl) 3784
Numida meleagris 1454, 1546
 partridge 1093, 3129, 3286
 turkey [480], 2089

ORDER GRUIFORMES

Neotis cafra 3889
 sp. 3714
 water hen 635

ORDER CHARADRIIFORMES

Anous stolidus 3603
Charadrius alexandrinus 2161
Fratercula arctica 634
 gull, sea 459
 gulls 454
Larus argentatus 1736
 puffin 518
Sterna anaethetus antarctica 2067

ORDER FALCONIFORMES

Coragyps atratus 1287
Falco tinnunculus 3694
Haliaeetus leucocephalus 3178
hawk 3694

ORDER COLUMBIFORMES

Columba livia 1142, 1200, 3355, 3622

ORDER CUCULIFORMES

Centropus sinensis intermedius 2960
superciliosus burchelli 1364

ORDER STRIGIFORMES

Athene nivalis [3224]
noctua 3282
sp. 2521
owl 224

ORDER CAPRIMULGIFORMES

goat suckers 2516

ORDER CORACIIFORMES

kingfisher 2675

ORDER PICIFORMES

Ramphastos dicolorus 3409, 3410

ORDER PASSERIFORMES

Carpodacus sp. 267
chaffinch [3287]
Coccothraustes coccothraustes burryi 2157
Corvus monedula 3283, 3694
splendens 1346
Cyanocitta stelleri [279], 3179
Erythacus rubecula [396]
Glarida sp. 3242, 3305
Habia melanocephala 283
Hirundo spilodera 3795, 3865
Hypocolius ampelinus 3359
Ixoreus naevius 726
jackdaw [3580], [3677]

Order Passeriformes (cont'd)

Motacilla alba yarrellii 2546
Passer domesticus [3155]
 montanus 523
Phoenicurus phoenicurus 3240
Pica pica 3281, 3284
 pipit 2520
Piranga ludoviciana 282
Riparia riparia 605, 1302, 1303
 sandmartin [2770]
Sturnella magna 2833, 2834
Sturnus vulgaris 1294, 1363
 thrush 280, 2518
Turdus merula [3009]
 ustulatus [285]
 viscivorus 3008
Vidua sp. 3174

CLASS MAMMALIA

ORDER MONOTREMATA

Echidna sp. 3138
Ornithorhynchus anatinus 2984, 3333

ORDER MARSUPALIA

 bandicoot 2673
Bettongia lesueuri 646
 penicillata 1393
 tropica 3090
Cercartetus concinnus 1162
Chironectes minimus 2687
Dasyurus geoffroyi 650
 maculatus 3198, 3561, 3563
 viverrinus 1847
Didelphis marsupialis 641, 3407
 marsupialis aurita 3408
 marsupialis cauae 3729
 sp. 638, 647, 648, 1391, 3447
Echympera kalubu 3011
Isodon fecialis 1213
 macrourus 669, 3024
 kangaroo 546, [551], 552, 553, 2832, 3400, 3676
Lagorchestes conspicillatus 1392
Lasiornhinus sp. 3195, 3196, 3197

Order Marsupalia (cont'd)

Macropus dorsalis 2100, 2192, 2689
 fuliginosus 1397
 giganteus 2115
 sp. 633, [644]
Megaleia rufa 3518
opossum 339
Perameles nasuta 1848, 3025
Sarcophilus harrisii 3591
Schoinobates volans 3938
Sminthopsis murina 1211
Tachyglossus aculeatus 547, 2868, 2878, 3517, 3522
Trichosurus vulpecula 2190, 3938
Vombatus ursinus 3194, 3196, 3197, 3520
wallaby 3373

ORDER INSECTIVORA

Chrysochloris sp. 3924
Crociodura sp. [1339], 1453, 3361
Erinaceus albiventris (539), 1838
 colligenis [797]
 europaeus 60, 80, 125, [324], 446, 597, 599, 608, 814,
 901, 918, 930, 931, 932, 1143, 1193, 1476,
 1557, 1700, 1823, 2757,a, 2759, 2760, 2977,
 2978, 3231, 3236, 3482, 3557
 frontalis 2892, 3870
 luxoraeus europaeus [631]
 sp. 2885, 2890
 hedgehog [358], 417, [1050], [1479], [1480], [2905z], 2920, 3085,
 3088, 3277
Hemiechinus auritus 3241
 auritus collaris 1103, 1675
 mole [499], [3133]
Paraechinus micropus 1677, 1684
Ptilocercus lowii 466
Setifer setosus 2891
Sorex araneus 621
 minutus 356
 sp. 3662
Suncus murinus 3017
Talpa europaea 3586
 sp. 583
 tenerec 3515
Tenerec ecaudatus 2884

ORDER CHIROPTERA

Artibeus jamaicensis jamaicensis 3731
 bat 225, 403, 591, 828, 1192, 1571, 2030, 2619, 3547, 3575, 3614,
 3649
Carollia perspicillata azteca 3968
Desmodus rotundus 3288
Eptesicus seratinus 3628
Megaderma cor 1164
Myotis tricolor 649
Noctilio labialis 3967
Pipistrellus kohli 3132
 pipistrellus 593, 1151, 1152, 1163
Rhinolophus ferrumequinum 3309, 3513, 3964
 ferrumequinum nippon 3629
 hipposideros 1594, 3513, 3521
Scotophilus heathi 1856
 temmincki 3173
 temmincki wroughtoni 592
 sp. 2746

ORDER PRIMATES

Ateles geoffroyi geoffroyi 565, 640
Colobus guereza caudatus 1171, 3682, 3683, 3684
 sp. 2379, 2719, 3681
Homo sapiens 6, 7, 131, 181, 211, 213, 334, 353, 543, 1456, [1846],
 1910, 2001, 2088, [2166], 2327, 2480, 2487, [2556],
 2643, 2644, 2665, 2672, 2946, 2947, 2948, 2950, 3019,
 3027, 3051, 3096, 3099, 3181, 3184, [3185], 3187,
 3188, 3234, 3313, 3320, 3402, 3440, 3441, 3460, 3464,
 3504, 3567, 3570, 3581, 3603, 3622, 3656, 3692, 3766,
 3850, 3857, 3880
 man [5], [57], [432], [505], 748,a, 1148, 1498, [1505], [1543],
 1875, [2213], 2214, 2215, 2216, 2219, [2364], 2749, [2750],
 [3097], [3098], [3169], [3229], 3233, [3651], [3767]
 marmoset 1885
 monkey 188
Papio cynocephalus 245
Presbytis entellus 1669
 sp. 3514

ORDER EDENTATA

Bradypus infuscatus griseus 3725, 3900
 tridactylus [544], 1149, 2103, 2119, 2618, 3125, [3351]
Choloepus hoffmanni 3156, 3723
Cyclopes didactylus 3454, 3462
Dasyurus novemcinctus fenestratus 3728
Myrmecophaga tridactyla 1269, 1749
 sloth [2808]

Order Edentata (cont'd)

Tamandua tetradactyla 36, 2869, 2873, 3128, 3411, 3713
tetradactyla chiriquensis 3726

ORDER PHOLIDOTA

Manis javanica 483, 1063, 2955
pentadactyla 1102, 1944, 2982
tricusps 564, 3961
 sp. [824], 882, 1292, 1293, 2803, 3379, 3401, 3910, 3946,
 3948

ORDER LAGOMORPHA

hare 98, 149, 660, 782, 783, 784, [790], 796, 952,a, 3278, 3279,
 3280, 3719, 3721, 3733, 3734, 3735, 3881
Lepus americanus 1142, 1147, 2045, 2046, 3180, 3181
americanus dalli 1195, 1196
capensis 3745
californicus 1533, 2321, 2322, 2324
crawshayi 3717
crawshayi zuluensis 3741, 3747, 3749, 3750
nigricollis kutchensis 1686
nigricollis simcoxi 1662
ochropus 3744
ruficaudatus 2931
timidus 1701, 2042
variabilis [3190]
whytei 1410
 sp. 2410, 2700, 3073, 3239, 3314, 3320,a-c, 3321, 3423, 3919
Ochotona princeps 1387, 3663, 3665
rufescens 2527
rabbit 352, 384, 841, 1129, 1541, 1577, 1800, 1801, 1802, 1803,
 2645, 2994, 3175, 3202, 3221, 3417, 3435, 3717, 3720,
 3721, 3746
Sylvilagus audubonii 2772
braziliensis 1894
braziliensis andinus 3624

ORDER RODENTIA

Agouti paca 1892, 1893
paca virgatus 3730
Anomalurus orientalis [2795]
Apodemus sylvaticus 3596, 3653
Arvicanthis sp. 3764, 3765
Arvicola nivalis [3224]
terrestris 622, 3592, 3593, 3594, 3595
Atherurus africanus 1922
macrourus 2962, 2964, 2970
 sp. 2738, 2789

Order Rodentia (cont'd)

- Callosciurus erythraeus gordonii 2966
erythraeus intermedius 2066
prevostii 3544
Cavia sp. 1738
Citellus citellus 3228
Clethrionomys glareolus 619, 3533, 3534, 3535, 3655
Coendou bicolor simonsi 560
Cricetomys gambianus 3873
Ctenodactylus gundi 2158, 2172
Dasyprocta agouti 3448
punctata 1507
sp. [1264], 2872
Dremomys rufigenis 2966
Eutamias townsendi 678
Euxerus erythropus microdon 3674
Gerbillus campestris 3537, 3538, 3539
gerbillus 1398
Hydrochoerus capybara 70, [222], 821, 1261, 1266
Hydromys sp. 2903
Hystrix africaeaustralis 3693
bengalensis 2957
cristata 1922
hodgsoni 2956
Lagidium peruanum 2513, 2514, 2517
Marmota bobak 1370
monax 3642
mice 3412
Microtus agrestis 629, 1165, 2509, 3654
arvalis 624, 625, 1069, 3532
sp. 3625
mouse [291], [1340], [1341], 1452, 1455, 3794, 3906
Mus concolor [1190]
escularis 1166
minutus [620]
musculus 3406
Myocastor coypus 826
Myopotamus coypu [674]
Neotoma alleni vetula 1394
Ondatra zibethicus 1537
Oryzomys longicaudatus 1389
Pedetes capensis 3368
Peromyscus leucopus 3643
Petaurista petaurista 3872
porcupine [3218]
rat [4], 32, [63], [328], [1036], [1277], [2451], 2519, 3412, [3512]

Order Rodentia (cont'd)

Rattus cutchicus 1678, 1679
 macleri 360
 norvegicus 1347, 1358, 1359, 2341Z, 2684, 2917
 rattus 323, 2917
 rattus rufescens 1670, 3193
 rodent 3545, [3644]
Sciurus vulgaris [630]
 sp. 284, 1396, 3664
Sigmodon hispidus chiriquensis 3899
squirrel 270, 581, 1134, 1300, [3207]
Sundasciurus brookei 3543
Tachyoryctes splendens 3065
Tamias sibericus striatus 2966
Tamiasciurus douglasi 1065
 douglasi douglasi 1195, 2043, 2044
Thryonomys swinderianus 3375
 sp. 1214, 1215, 2481, 2537, 3959
 vole 1204
Xerus erythropus 3952
 rutilus [1203], 1224
 sp. 2882

ORDER CARNIVORA

Aonyx sp. 3925
 bear 586, [799]
 bush cat 3109
Canis adustus 2581,a,b, 3323
 aureus 764, 1085, 1510, 1737, 2889
 aureus indicus 2003, 2007
 familiaris 488, 572, 573, 576, 579, 645, 892, 1263, [1270],
 1271, 1272, 1691, 2715, 2730, 2886, 2897, 3223,
 3232, 3405
 lupus pallipes 1680, 1681, 2077
 mesomelas 2581,a,b
 vulpes [217]
 cat 186, [231], 293, [275], 327, 464, [1037], 1280, 1431, 1439,
 1504, 3021, [3168], [3206], 3237
 cat, wild [266], [355], 2387
 civet cat 144, [742], [2790]
Crocuta crocuta 3325
Cuon alpinus dukhunensis 1671, 1672, [1673]
 dog [5], [8], 9, 10, [11], [12], 19, 25d, 26d, 47, 48, [49], 55,
 56, [62], [81], 87, 97, 102, 109, 110, 113, 115, 116, 121, 145,
 150, 173, 174, 187, 191, 195, 201, 220, 230, 262, [277], 295,
 299, 317, 341, [342], [343], 344, 371, 386, [400], 414, 422,
 426, [434], 436, [445], 447, 463, 464, 479, [505], 510, [520],
 [654], 660, 662, 663, [682], [683], [691], [727], 731, [733],

Order Carnivora (cont'd)

dog (cont'd)

748, 749, 762, 763, 768, [865], [866], 867, 868, 869, [870],
 [876], 893, 897, 953,b, 954, [986], 988, 989, [990], [998],
 999, 1000, 1001, 1003, 1013, 1021, 1023, [1035], 1058, 1072,
 1073, 1120, [1124], 1126, [1127], 1128, [1140], [1169], 1176,
 [1181], [1184], [1185], 1186, 1189, 1191, 1210, 1253, 1255,
 1274, 1297, 1360, 1362, 1377, 1380, 1382, 1407, 1434,
 1449, 1509, 1538, 1540, 1616, [1617], 1618, 1643, 1644, 1645,
 [1688], 1702, 1705, [1730], 1791, 1799, 1804, 1810, [1811],
 1825, 1854, 1876, [1891], 1924, 1932, 1941, 1942, 1949, 1950,
 1966, 1971, [1972], 1985, 1988, 1989, 1900,a, 1991, 2008,
 [2012], 2026, 2028, 2032, 2036, 2039, 2053, 2079, 2116, 2123,
 [2125], 2129, [2130], 2134, 2169, 2171, 2193, 2201, 2214,
 2215, 2216, 2224, 2234, 2244, 2245, 2246, 2252, 2269, 2277,
 2280, 2281, 2283, 2310, 2318, [2328], 2334Z, 2335Z, 2336Z,
 2337Z, 2338Z, 2339Z, 2340Z, 2341Z, 2347, 2349, 2358, [2367],
 2395, 2398, 2425, [2443], [2447], [2454], 2455, [2458], [2461],
 [2464], [2474], 2486, 2489, 2490, 2492, 2497, 2502, [2531],
 [2533], [2535], 2547, [2551], 2565, 2598, 2622, 2628, [2636], 2648,
 [2652], [2654], 2658, [2663], 2682, 2688, [2694], 2695, 2696,
 2725, [2771], [2775], 2776, [2809], [2814], 2827, [2836],
 [2839], 2840, 2841, 2842, [2850], 2853, 2857, 2921, 2925,
 2928, [2929], 2930, [2935], 2951, 2952, 2976, 2980, 3022,
 3035, 3040, 3041, 3054, 3047, 3059, 3060, 3089, 3095, 3103,
 3104, 3115, 3142, 3145, 3149, 3153, 3154, 3172, 3182, [3183],
 3237, 3255, 3256, [3257], 3258, 3259, [3260], 3262, 3266,
 [3290], 3306, 3320 a-c, 3324, 3371, 3419, 3421, 3426, 3454,
 [3481,a,b], 3571, 3572, 3573, 3576, [3589], 3695, 3698, 3715,
 3742, 3758, 3759, 3762, 3785, 3789, 3796, 3851, 3852, 3858

Dusicyon gymnocerus 3415

Dusicyon sp. 223

Eira barbara subsp. 3452, 3456

Felis affinis [1663]

bengalensis 2960

caracal 1682

chaus 693, 1666, 3360

concolor 637, 3310

libyca ornata 1675

onca 3445, 3457

pardalis mearnsi 3902

pardus [2729]

serval 3038

tigris [1110]

viverrina 2865

ferret [692]

fox [269], [632], [785], [1170], [2735]

Galictis vittata 3404

Genetta sp. 2065, 2197, 2198, 3931

Order Carnivora (cont'd)

- Helarctos malayanus 1563, 2953, 2954, 3074, 3329, 3939, 3941
Helogale parvula 1223, 1225
 parvula varia 764
Herpestes edwardsi 1661, 2766
 sp. 942, [2819], 3479
hyaena [5], [2383]
Hyaena hyaena 50, 575x, 1395, 1665, 1668, 1676
 sp. 1562
Ictonyx striatus 477
jackal 1932, 2373
leopard [728], [2475], [3192], [3951]
lion [310], [1933]
Lutra lutra 456, 598, 601, 2724
 vulgaris [216]
Lycaon pictus 1426, 2601, 3308
Martes flavigula 3555
Meles meles 2528, 3620, 3627
 taxus [3209]
Mephitis mephitis 1135
mongoose 147, 1881
mountain lion [272]
Mungos paludinosus [1923]
Mustela erminea 399, 404, 602, 603, 607, 610, 611, 612, 613, [656],
 917, 1159, 2327Z, 2328Z, 2329Z, 3119
 frenata zanthogenys 2047, 2048, 2049, 2054
 furo 1137, 1138, 1168, 1240, 1385, 2164, 2330Z
 nivalis 668, 1194, 3108
 putorius [322], 600, 604, 606, 609, 1239, 1916, 3566
 vison 1399
 sp. 1378
Nasua narica 2810, 2811
 nasua 3405, 3455
Neofelis nebulosa 2959
ocelot 1880
panther 2388
Panthera leo 1119, 1424, 2401, 2402, 2403, 2404, 2647, 3302, 3933,
 3934 d, 3935
 pardus 496, 503, 1621, 2266, 2548, 2732, 2805, 2806,
 3200, 3268, 3301
 tigris 3338
Paradoxurus hermaphroditus 2692, [3876]
 sp. [686], [1648]
polecat 148, [746], [962]
Procyon lotor 992, 2087, 2813
Putorius energermania [1388]
 erminea [298]
raccoon 1888
Selenarctos thibetanus 2956, 2961
Speothos venaticus 562, 566

Order Carnivora (cont'd)

Suricata suricata 578
Taxidea taxus 1539
 tiger 2104, 2105, 2106
Urocyon cinereoargenteus 3328
Ursus arctos 786, 787, 798, 800
 torquatus 2957
Viverra civetta 1697
 zibetha 2959
 sp. [688]
Viverricula indica 2864
Vulpes fulva 3328
 vulpes 784, 789, 1157, 1170, 2372, 2733, 2734, 2815
 vulpes pusilla 1683
 wolf 1996, [2056]

ORDER PROBOSCIDEA

elephant [1345]
Elephas maximus 3956
Loxodonta africana 216, 528, 733, 1150, 1217, 1232, 1318, 1417,
 1603, 1809, 1902, 1915, 2018, 2019, 2263, 2271,
 2483, 2507, 2717, 3211, 3718, 3854, 3879, 3915,
 3916, 3936, 3958

ORDER HYRACOIDEA

Heterohyrax brucei 1222
 brucei manningi 2847, 2848
Hyrax [2365]
Procavia capensis 3866, 3867
 sp. 3920

ORDER PERISSODACTYLA

asses [1140]
Ceratotherium simum 1440, 1457, 2377,a, 3672, 3953
Diceros bicornis 1231, 1433, 1435, 1438, 1440, 1446, 1457, 1934,
 2377,a, 2784, 2785, 3215, 3602, 3672, 3777, 3856,
 3904, 3953
 sp. 1087, 1088, 1089
 donkey 25, [430], [1554], 1637, 1639, 1642, 1755, 1761, 1762, 1763,
 1764, 1772, 1773, 1774, 1780, 2298, [2630], 2682, 2960, 3274
Equus burchelli 534, 677, 879, 1156, 1409, 2041, 2375, 2405, 2406,
 2408, 2409, 3230, 3780
 caballus 582, 1693, 2880, 3485
 "Grison" 1889
 horse 25, 26b, 84, [94], 111, 129, 184, 212, 214, 232, [271], [274],
 301, 340, [381], 385, 461, 464, 501, 524,a, 542, 890, 893,
 [1140], 1145, 1146, 1174, [1175], [1183], 1197, 1219, 1282,
 [1284], 1416, 1494, 1530, 1532, 1535, 1626, 1627, 1628, 1696,
 1731, 1735, 1796, [1817], 1818, 1824, 1834, 1851, 1853, 1866,

Order Perissodactyla (cont'd)

horse (cont'd)

- 1867, [1868], [1911], [1941], 1956, 1968, 1973, 1975, 1900,a,
 1999, 2000, 2025, 2083, 2085,b, 2178, [2179], [2180], 2181,
 [2182], 2183, 2184, 2220, [2221], 2235, [2278], 2286, 2303,
 2304, 2312, [2348], 2368, 2419, [2446], [2456], 2510, 2532,
 [2534], 2637, 2681, 2714, 2723, 2728, 2851, 2852, 2855, 2907,
 2908, 2909, [3067], 3114, 3311, [3353], [3481,a,b], 3507, 3757
 mare (see horse) [260], 2428
 mule [96], 142, 331, 2318, 2423, 2999, 3214, 3418
 pony 112, [114], 175, 257, [258], 760, 1553, 1979, 3420, 3424
 rhinoceros [326], [538], 563, 938, [956], [965], [1428]
Rhinoceros bicornis [3476]
 sondaicus 3601
Tapirus americanus [1265], [1897]
 bairdi 3722, 3624, 3970
 indicus 3127
 sp. 2871, 3461, 3468, 3702, 3703, 3704

ORDER ARTIODACTYLA

- Aepyceros melampus 1334, 1447, 2240, 2411, 2539
Alcelaphus buselaphus 338, 536
 buselaphus cokii 1326, 1335
 lichtensteini 2242, 2320, 2450, 2701
Alces alces 1497, 1499, 2237, 3708
 antelope [673a], [1115], 1202, 1899, 2354, 2597, 2612, 3094,
 [3753]
 boar (see pig) [687]
Bos bovis [3577]
 caffer [3477]
 indicus 495a-d
 taurus [141], [210], 226, [1273], 1306, 2887, 3470, 3473,
 3485, 3493
 sp. 543
Bubalus bubalis 489, 495a-d, 540, 2721, 2916, 3161
 buffalo 185, 300, 497b, 833, 1220, 1221, 1228, 1229, [1710], 1815,
 1960, 2120, 2233, 2465, 2530, 2534, [2634], [2828], [2829],
 3348, 3661, [3950]
 bull (see cattle) 761, 1689, 1706, 1765, [1768], 1782, 1790, 1962,
 1965, [1994], 2211, [2249], [2265], [2542], 2543
 bullock (see cattle) 117, [254], [255], 256, 259, [261], [303],
 1010, 1011, 1015, 1070, [1140], 1632, 1634,
 1636, [1759], 1767, 1781, 1784, 1786, 1787,
 1788, 1789, 1792, 1793, 1794, 1795, 1853,
 1855, 1974, 2102, 2150, 2345, 2346, [2390],
 2529, 2534, 2631, 3425, 3658, 3660
 bushbuck 675, [3771]

Order Artiodactyla (cont'd)

- calf (see cattle) 835, 861, 862, 864, 881, [1033], 1061, 1254,
1383, 1852, 1930, 1963, 2149, [2254], 2745,
[2773], [2845], 3023, [3105], 3551, 3717, 3831,
3928, 3934 c
- camel 25d, 481, 795, 910, 966, [1004], [1006], [1007], [1122],
1696, [1766], [1815], [1926], [2206], [2333Z], [2360],
[2629], [2861], [2923]
- Camelus dromedarius 17, 30, 35, 332, 655, 657, 1005, 1624, 2441,
2555, 2560, 2862, 2926, 3272, 3431, 3472,
3542, 3549, 3582, 3623, 3627, 3670, 3963
- Capra falconeri [3136]
hircus 2888
- Capreolus capra [771]
capreolus 1248, 1374
- Capricornis sumatraensis 3388
sumatraensis milnedwardsi 1400
- cattle [3], [18], 27, 28, 33, 34, 46, 54, 59, 65, 66, 67, 68, 79,
85, 86, 104, 108, 167, 169, 171, [172], 176, 180, 182, [190],
192, 193, 219, [244], [247], 248, 252, 296, 316, 318, 345,
368, 370, [373], 382, 391, [416], 437, 452, 458b, [462],
465, 507, [513], 515, 517, 524, a, 527, 529, 664, 665, 672,
676, 680, 729, 730, 732, 734, 737, 739, 743, 750, 775,
776, 777, 778, 780, 781, 793, 794, 801, 802, 809, 830,
871, 872, 875, 877, 886, 893, 943, 944, 947, 955, 994,
[1038], 1041, 1059, 1090, [1114], 1117, [1118], 1177,
[1178], 1179, 1249, 1250, 1252, 1279, 1308, 1309, [1310],
1348, 1379, 1412, 1423, [1429], 1460, 1492, [1493], 1532,
1569, 1581, 1586, 1592, 1593, 1601, 1606, 1614, 1619,
[1622], [1623], 1629, 1650, 1658, 1694, 1696, 1697, 1723,
[1724], 1816, 1828, 1829, 1830, 1831, 1832, [1833], 1834,
1835, 1840, 1864, [1865], 1906, 1908, 1909, 1912, 1913,
1914, [1919], 1921, [1931], 1967, 1982, 1983, 1986, 2033,
2034, 2035, 2037, 2057, 2073, 2075, 2078, 2085, b, 2090,
2091, 2092, 2099, 2109, 2124, [2132], [2137], [2138],
2143, 2144, 2148, 2162, 2163, [2165], 2167, [2175], 2186,
2191, 2194, 2202, 2203, 2204, 2205, 2208, 2210, [2223],
2225, 2226, 2227, 2228, 2229, 2236, 2256, 2259, 2261, 2262,
2335, 2337, 2340, 2341, 2342, 2343, [2344Z], [2369], [2391],
2452, 2457, 2482, 2485, 2488, 2493, 2494, 2495, 2497, 2498,
2499, 2500, 2501, 2503, 2504, 2505, 2506, 2511, 2544,
[2545], 2552b, 2557, 2561, 2562, 2564, 2566, 2568, 2570,
2575, 2580, 2583, 2585, 2586, 2588, 2589, 2591, 2592, 2593,
2594, 2596, 2606, 2610, 2640, 2641, [2642], 2646, [2653],
2655, 2656, 2657, 2659, 2660, 2661, 2662, 2664, 2667, 2669,
2670, [2678], [2679], [2683], 2705, 2706, 2707, 2708, 2709,
2710, 2711, 2712, 2713, 2720, [2726], 2727, 2736, 2781,
2782, 2835, 2837, 2838, 2863, 2898, 2910, 2911, 2912, 2913,
2914, 2915, 2918, 2944, 3012, 3026, 3034, 3036, 3044, 3045,

Order Artiodactyla (cont'd)

cattle (cont'd)

3048, 3049, 3050, 3052, 3053, 3056, [3061], 3080, 3100,
 3112, 3116, 3143, 3152, 3163, [3164], 3177, 3191, 3212,
 3226, 3255, 3256, [3257], 3258, 3259, [3260], 3263, [3265],
 [3273], [3275], 3276, 3297, 3303, 3304, 3332, [3339], [3340],
 [3341], 3342, 3343, 3344, 3345, 3362, 3369, 3370, 3413, 3427,
 3433, 3442, [3481,a,b], 3547, 3588, 3597, 3606, 3697, 3717,
 3748, 3751, [3755], 3760, 3772, 3773, 3776, 3778, [3779],
 3782, 3799, 3800, 3806, 3807, 3808, 3809, 3810, 3811, 3812,
 3813, 3814, 3815, 3816, 3817, 3818, 3819, 3820, 3822, 3823,
 3824, 3825, 3827, 3828, 3830, 3832, 3833, 3834, 3835, 3836,
 3837, 3839, 3840, 3841, [3842], 3843, [3844], [3846], 3847,
 3848, 3849, 3882, 3883, 3884, [3885], 3886, 3887, 3907, 3908,
 3929, 3934,a,b, 3947

Cephalophus monticola 3909

sp. 3378

Cervus axis 519

capreolus [509], 1692

elephas [769], [770], 2374, 2380

unicolor 1070, 1251, 3560, 3859, 3860

unicolor brookei 2118

sp. 541, 2752, 2753, 2754, 2755, 2756, 2757,a, 2883

Connochaetes taurinus 1328, 1329, 2378, 2603

cow [5], 146, [159], [160a,b], [161a,b], [162a,b], [163], [164],
 [165], 215, 306, 312, [314], 372, [383], [387], 417 a-e, [425],
 427, 428, 431, 435, 467, 476, [747], 812, 878, 891, 900, 1019,
 1055, 1071, 1116, 1180, 1188, 1230, 1531, 1635, 1757, 1758,
 [1769], 1771, 1775, [1778], [1812], 1826, [1957], 1969, 1973,
 1976, [1978], 2004, [2127], 2139, 2140, [2141], 2146, [2195],
 2214, 2215, 2216, 2219, 2222, 2250, 2258, 2260, 2273, 2284,
 2285, 2331, 2333, 2334, 2336, 2338, [2339], 2344, [2412],
 2413, 2414, 2421, 2429, 2430, [2433], [2435], 2444, 2445,
 [2449], 2463, 2477, 2626, [2828], 2666, 2671, 2846, 2922,
 [2927], 2949, 3101, [3106], [3107], 3110, 3147, 3148, 3150,
 3151, [3176], [3204], 3269, 3289, 3294, 3295, 3296, 3422,
 3530, 3559, 3658, 3685, 3686, 3696, [3756], 3905

Damiliscus lunatus 1167

deer [197], 307, 1560, 1707, 1729, 1807, 1808, 1821, 3521, 3703

Dicotyles torquatus [822], [823], [1262]

sp. [1267]

duiker buck 3322

eland [1313]

ewe (see sheep) 2417, 2418, 2437

Gazella granti 2602

thomsoni 3928, 3932

gazelle [2817]

gazelle, Senegal 3322

Order Artiodactyla (cont'd)

- Giraffa camelopardalis 20, 558, [751], 888, 945, 960, 1805, 2382, 2577, 2824
- goat 26c, 101a,b, 118, 168, [189], 235, 325, 380, 437a,b, 497b, 665, 759, [766], 885, 964, 1082, 1325, 1384, 1437, 1495, 1589, 1630, 1631, 1638, 1641, [1756], [1760], 1770, 1776, 1777, 1779, 1783, 1785, 1798, 1903, 1928, [1940], 1964, 2005, [2080], 2081, [2128], 2133, 2135, 2136, 2253, 2255, 2257, [2264], 2268, 2288, 2297, 2325, 2332, 2353, [2359], 2420, 2422, 2432, 2439, 2460, [2468], 2469, 2473, 2525, 2541, 2553, 2571, 2573, 2579, 2587, 2590, 2627, 2681, 2901, 2924, 3037, 3046, 3056, 3146, 3305, 3331, 3673, 3687, 3743, 3763, 3802, 3804, 3821, 3888, 3903, 3930, 3942
- Hartebeest [537]
- heifer (see cattle) [963]
- Hemitragus hylocrius 3072, 3347, 3659
- Hippotragus equinus 1314, 1322, 1324, 1444, 1448, 1451, 2638, 3006, 3166, 3312, 3319
- niger 755, 2072, 2361, 2538, 3029
- hog (see pig) 1872
- horse antelope 2613
- Hydropotes inermis 1401
- Hylochoerus meinertzhageni 3491
- ibex [2371]
- Kobus ellipsiprymnus 1458, 1708, 1709, 1713, 1901, 2094, 2330, 3031, 3840
- kob thomasi 1717, 1981
- lamb (see sheep) [415], 417a-e
- Litocranius walleri 3689, 3690, 3691
- llama [3971]
- Mazama sp. 2812
- Moschus moschiferus 1375, 1402
- mouse deer 151, 183
- Muntiacus muntjac 2962, 2970, 3171, 3599
- reevesi 1373
- Naemorhedus goral subsp. 1372
- Odocoileus hemionus 745, 1570
- virginianus 1281, 1285, 1286, 1386, 2767, 2812
- sp. [1278]
- Oreotragus oreotragus 351, 3891, 3892, 3894, 3895, 3897
- Oryx beisa 1246, 3688
- gazella 1432
- Ourebia ourebi 880, 2843
- Ovis canadensis 1536
- orientalis lahorensis 2155
- ox (see cattle) 25d, 26a, 99a,b, 133, [159], [160a,b], [162a,b], [163], [164], [165], 233, 311, 1748, 1749, 1750, [2016], 2076, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, [2300], 2301, 2302, 2305, 2306, 2308,

Order Artiodactyla (cont'd)

ox (cont'd)

- 2309, 2311, 2313, 2314, 2315, [2317], 2343Z, 2415,
2416, [2424], 2426, 2427, 2431, [2434], [2436],
2859, 3267
- Phacochoerus aethiopicus 740, 744, 1218, 2188, 2212, 2389, 2394,
2600, 3113, 3167, 3216, 3316, 3318, 3474,
3675, 3678, 3739, 3740, 3868, 3896, 3937,
3944
- pig 152, 198, 309, [433], 1062, 2104, 2105, 2106, 2287, 2299, 2651,
[3033], 3495, 3711
- pig, wild bush 1209
- Potamochoerus chaeropotamus [1311]
- porcus 738, 1608, 1609, 2791, 2798, 2800, 2820, 2826,
3437
- ram (see sheep) [2549]
- Raphicerus sharpei 2702
- Redunca arundinum 2362, 2540, 2625, 2844
- fulvorufula 2844
- sp. 2095
- reed-buck [2096], [2097], [3367]
- roan antelope [1321], [1323]
- roebuck [1182]
- roe-deer [58]
- sable antelope [2744]
- sheep 26c, [64], [83], 100, 234, 304, 369, [398], [401], 402, 405,
417 a-e, [423], 429, 468, [473], 497b, 665, 765, 803, 804,
805, 806, 807, 808, 899, 1024, [1025], 1026, [1039], 1052,
1053, [1054], 1078, [1172], 1173, 1207, 1216, 1242, 1256,
1257, 1258, 1305, 1406, 1564, 1565, 1633, 1646, 1653, [1806],
1819, 1820, 1926, 1929, 1939, 1958, 1992, 2023, 2085b,
[2126], 2131, 2147, 2151, 2152, [2168], 2170, 2209, 2251,
2267, 2270, [2307], 2316, 2329, 2352, 2355, 2356, 2462,
[2470], 2472, 2482, 2491, 2525, 2544, [2545], 2554, 2607,
2614, [2635], 2668, 2780, [2856], 3054, 3057, 3058, 3079,
3144, [3205], [3208], 3213, 3307, 3393, 3414, [3526], [3527],
3528, 3529, 3552, 3598, 3648, 3679, 3680, 3752, 3762, [3774],
3775, 3785, 3793, 3801, 3803, 3805, 3826
- stag 1525, [1526], 1527, 1528, 1529, 1961
- Sus scrofa 1852, 2376, 2804, 2854, 3005, 3013, 3222, 3326, 3357,
3567, 3621, 3666, 3667, 3940
- scrofa cristatus 767, 1568, 2961, 3071
- scrofa jubatus 1369
- verrocosus celebensis 72
- verrocosus subsp. 73, 74
- Sylvicapra grimmia 350, 2211Z, 2393
- Syncerus caffer 194, 196, 246, 337, 752, 775, 2020, 2384, 2396,
2397, 2649, 2716, 2788, 2802, 2830, 2893, 2900,
2902, 2960, 3003, 3014, 1015, 3075, 3376, 3587,
3638, 3710, 3845, 3893, 3914

Order Artiodactyla (cont'd)

- Taurotragus oryx 336, 951, 1027, 1091, 1094, 1100, 1121, 1413,
 1414, 1459, 1588, 1711, 1712, 2071, 2243, 2385, 2599,
 2604, 2623, 2743, 3032, 3215, 3927, 3933
Tayassu pecari 3243, 3450, 3451
 tajacu 1746, 3874, 3943, 3969
 tajacu patira 3443, 3449, 3458
 sp. 557
Tragelaphus angasi 1600, 1602, 3434, 3869
 inberbis 1442, 1450, 2792
 scriptus 741, 884, 1408, 2438, 2624, 3219, 3475, 3737,
 3738, 3781, 3829
 spekei 1714, 2786, 3949, 3954
 strepsiceros 1411, 1605, 2639, 2792, 2825
Tragulus javanicus 3877
 kanchil fulviventer [3878]
 meminna 1107, 1108, 3220
 wart hog [2365], 3062
 wasserschwein 2108
 waterbuck [883], [2042], [2241]
 zebra [753], [2319], 2370, [2407], [3157], [3480]
 zebu 1566, [1567], [1993]

MISCELLANEOUS

- big game [? Mammalia] 478
Grusus resimus [1404]
 "kibihee" 1890
 "labba" 1882
 "mpoula" 3064
 "mpouri" 1651
Rato selvagen 3972
 "salapenter" [? Reptilia] 1874
 "schira" 2794
Tamarix gallica [a shrub] 2117, 2156
 "vizcacha" [2515]
 "water hass" 1887

Appendix IV

Geographical Origin for Ixodoidea in the Nuttall Tick Collection

At the time of Professor Nuttall's death in 1937 there were 70 nations in the world community. By January 1, 1984, that number had increased to 168. In the following list of countries, territories, islands, and so forth, a few concepts should be borne in mind. If a tick collection is missing, I have listed the locality as it originally appeared in Nuttall's handwritten catalogue. If a tick collection is present, I have, if necessary, updated the locality to what is the currently recognized name. Thus, the reader will

find both Gold Coast and Ghana, Persia and Iran, Ceylon and Sri Lanka, and so forth, in this listing. In most cases, I have used the short form of the name of a country, e.g., Algeria, not Democratic and Popular Republic of Algeria. However, in a few instances, it was necessary for clarity to use the official long form of the name, e.g., People's Republic of China, not China, to prevent confusion with the political area listed as Taiwan. I have also retained the names of certain familiar islands although they may not be independent. For example, it is more convenient to locate a tick collection from the Galapagos Islands by looking it up under that name rather than looking under Ecuador.

Abyssinia 14, 2750, 2819, 3168

Admiralty Islands 2673, 2675

Africa 44, 570, 2370, 2371, 2375, 2377-2379, 2382, 2384, 2385, 2798, 2800, 2802, 2824, 3352, 3672, 3675, 3922

Algeria 30, 655, 998-1009, 1024-1026, 1052, 1053, 1122, 1125-1131, 1172-1179, 1256-1258, 1305a, b, 1556-1559, 1561, 1574, 1695, 2157-2160, 2508, 2890, 3020, 3028, 3120, 3132, 3509, 3510, 3536-3539, 3706, 3712, 3766

America 637, 915

Angola 131-133, 142, 205, 321, 350-353, 390-394, 1217, 1578, 1947-1950, 2478, 2644-2646, 2649-2652, 2717, 2742, 2743, 3587

Antigua 319, 2678-2680, 3103-3107

Argentina 588, 946, 1828, 1829, 1835, 2220, 2249, 2250, 2867, 3861, 3971

Argentine Republic 1891

Asia Minor 179

Australia 3, 34a, 42, 54, 120, 157, 158, 178, 207, 208, 339-345, 481, 546, 547, 550-554, 556, 567, 569, 571, 633, 642-646, 650, 669, 712, 832, 1080, 1081, 1154, 1162, 1205, 1206, 1211-1213, 1392, 1393, 1397, 1739, 1745, 1840-1845, 1846, 1847-1852, 2099, 2100, 2113-2115, 2189-2192, 2231, 2689-2691, 2832, 2868, 2877, 2942, 2943, 2984-2992, 3024, 3025, 3089, 3090, 3124, 3194, 3198, 3222, 3223, 3294-3296, 3333, 3362, 3373, 3400, 3516-3520, 3522-3524, 3553, 3561-3563, 3590, 3591, 3603, 3652, 3676, 3938

Baluchistan 3067

Barbados 10, 47, 312, 314, 316, 317, 2767

Barbuda 1707

Bechuanaland 94, 96

Belgian Congo 2399, 2468, 2470, 2474, 2475, 2771, 3102, 3291-3293, 3339-3341, 3385, 3951

Belgium 597, 631

Bolivia 560, 562, 566, 2871

Borneo 2883, 3514, 3666, 3667

Botswana 95, 97, 98, 99, 100, 101, 329

Brazil 222, 223, 236, 544, 641, 653, 725, 820-823, 1149, 1260-1273, 1306a-d,
1857, 1892-1897, 1972, 1973, 1974, 2687, 2688, 2703, 2704, 2869,
2872-2874, 3125, 3372, 3404, 3405, 3407-3412, 3540, 3541, 3972

British Central Africa 203-204, 238, 326, 1617, 2895

British East Africa 5, 49, 537, 538, 965, 1319, 1321, 1339-1341, 1429, 1445,
1710, 1724, 1756, 1759, 1760, 1766, 1768, 1769, 1778,
1814, 1815, 2027, 2400, 2407, 2740, 2836

British Guiana 3097, 3098, 3176, 3701

Burma 227, 890, 1106, 1191a, 1219, 1254, 1255, 1379-1384,a, 2955-2971, 3019, 3337,
3338, 3390, 3489

Cameroon 2803, 2804, 2820, 2826, 2830, 2887, 2888, 2898, 3003, 3005, 3012, 3401

Canada 506, 596, 678, 700, 726, 745, 747, 812, 943, 991, 992, 1064, 1065,
1105, 1134-1136, 1144-1148, 1195-1199, 1300, 1301, 1361, 1377,
1378, 1387, 1388, 1390, 1497-1504, 1735, 1800-1803, 1824, 2043-2046,
2237, 2452, 2776, 2937, 3023, 3026, 3027, 3178-3181, 3502, 3504, 3662-3665,
3708, 3789

Canary Islands 2080, 2081, 2922, 3226

Central Africa 2790

Central African Republic 2996

Central America 3492, 3609

Ceylon 511, 513

Chad 2805, 2806

Chile 1389, 1832

China 2628, 2905, 2905z, 3644

Christmas Islands 360

Colombia 993-995, 1699, 2107, 2442, 2617-2619, 3162, 3605, 3790

Congo 1697

Congo Free State 310

- Costa Rica 2810, 2813, 2875, 3874, 3943
- Cuba 2866, 3488
- Cyprus 2332Z-2341Z, 3589, 3648, 3763
- Dominica 87, 2016, 2725-2727
- Dutch East Indies 2344Z
- East Africa 103, 3016
- East African Protectorate 1428
- East Coast of Africa 104
- Ecuador 3212, 3624, 3625
- Egypt 11, 12, 17, 18, 46, 84, 85, 130, 237, 242, 539, 981-983, 1297, 1398, 1624, 1926, 1930, 2201, 2206-2211, 2441, 2541-2543, 3191, 3234, 3707
- England 7, 19, 53, 60, 62-64, 69, 75, 80, 81, 88, 123, 125, 128, 216, 217, 224, 225, 263, 265, 292, 298, 304, 322, 324, 347, 356-359, 395, 396, 398, 399, 403, 404, 446, 453, 454, 456, 499, 501, 509, 518, 522, 580, 593, 598-605, 607, 610, 611, 618, 621-623, 627, 652, 656, 668, 756, 813-816, 896, 898-902, 918, 930-932, 963, 1036, 1037, 1039-1041, 1046, 1050, 1051, 1067, 1068, 1079, 1123, 1133, 1137-1139, 1141, 1143, 1152, 1159, 1160, 1165, 1192-1194, 1207, 1239-1241, 1296, 1299, 1302-1304, 1347, 1358-1360, 1363, 1371, 1385, 1476-1480, 1483-1486, 1490, 1560, 1564, 1565, 1576, 1577, 1595, 1657, 1729, 1730, 1732, 1733, 1736, 1807, 1808, 1823, 2017, 2151, 2152, 2174, 2248, 2327Z-2331Z, 2509, 2546, 2724, 2769, 2770, 2780, 3108, 3119-3121, 3130, 3131, 3133, 3155, 3160, 3182-3184, 3199, 3231-3233, 3235-3237, 3363, 3393, 3439, 3512, 3513, 3515, 3531, 3566, 3579, 3580, 3586, 3592-3596, 3649, 3653-3655, 3677, 3694, 3695, 3700, 3794, 3798, 3858, 3875, 3921, 3961, 3964
- Equatorial Guinea 3004
- Ethiopia 1156, 1201, 1202, 1222-1225, 1415, 2318, 2480, 2749, 2882, 3170, 3762, 3785
- Europe 3918
- Federated Malay States 2729
- Fiji 986-989, 1023, 1188, 1208, 1209
- Formosa 2814

France 523, 1075, 1234, 1237, 1288, 1289, 1525-1529, 1540, 1541, 1701, 2752-2761, 2763, 2765, 2778, 2779, 2881, 3201, 3202, 3355, 3371, 3372, 3622

French Sudan 469

Galapagos Islands 397, 711

Gambia 370-373, 424-434

German East Africa 1310, 2558, 2559, 2568, 2572, 2578, 2582, 2783, 2795

German South West Africa 2828, 2829, 2831

Germany 1124, 1169, 1170, 1181-1184, 2997, 3412Z

Germany, Democratic Republic of 354, 768-771, 1168

Germany, Federal Republic of 55-58, 608, 1186, 2705-2710, 2815, 3396, 3534, 3535

Ghana 181, 502-504, 1546, 1956, 2625, 3059, 3062, 3079-3088, 3109, 3132, 3174, 3175

Gold Coast 928, 1622, 1623, 3061, 3063

Greece 2818, 3281-3287

Grenada 3214

Guatemala 709, 2876

Guyana 126, 435, 436, 1546, 1651, 1738, 1741, 1746, 1870-1890, 2620, 2621, 2685, 2899, 2940, 3096, 3099, 3110, 3227, 3243, 3702-3705, 3796

Haiti 3497

Hawaii Islands 2653

Honduras 3607, 3955

Hong Kong 1966, 1982, 1988

Hungary 1690-1693, 2936, 3416

India 4, 9, 31-33, 34b-h, 38, 41, 43, 108-118, 135, 136, 140, 167-176, 201, 243, 254, 255, 258, 260, 261, 264, 303, 327, 328, 369, 445, 452, 470-472, 572, 573, 576, 581-583, 592, 683, 759-764, 766, 767, 817, 825, 835, 853-857, 861-870, 892, 906, 907, 910, 942, 949, 977-980, 990, 1071-1074, 1084-1086, 1104, 1106, 1140, 1190, 1191, 1210, 1220, 1221, 1243, 1249-1253, 1346, 1348, 1365-1367, 1406, 1407, 1511, 1514-1516, 1518-1523, 1566-1568, 1572, 1649, 1661-1684, 1686, 1728, 1804, 1825-1827, 1856, 1858-1860,

India (cont'd)

1904-1910, 1924, 1932, 1942, 1946, 1958, 1959, 1980, 1989, 1990,
 1996-1998, 2002, 2003, 2023, 2056, 2066, 2077, 2121, 2122, 2153,
 2155, 2251-2254, 2275-2277, 2279, 2347, 2351, 2357, 2359, 2360,
 2367-2369, 2443-2449, 2454, 2456, 2461, 2464, 2529-2536, 2556,
 2629, 2630, 2634-2636, 2694-2699, 2723, 2745-2745, 2768, 2850,
 2864, 2865, 2879, 2928-2931, 2935, 2980-2982, 3069-3073, 3137, 3158,
 3159, 3171, 3172, 3193, 3199, 3218, 3220, 3334-3336, 3347, 3348,
 3358, 3364-3366, 3386-3389, 3391, 3392, 3418-3424, 3430, 3469,
 3494, 3547, 3550, 3558, 3565, 3578, 3597, 3598, 3600, 3657-3660,
 3696, 3791, 3792, 3857, 3859, 3860, 3880, 3905, 3907, 3908, 3956,

Indonesia 483-496, 541-543, 2187, 2345, 2346, 2731, 2827, 3114-3118, 3123,
 3161, 3511, 3555, 3614-3617, 3711, 3875

Iran 480, 2524-2528, 2975, 3213

Iraq 479, 1362, 1983, 3239-3242, 3277-3280, 3359, 3360, 3402

Ireland 62, 612, 630, 929, 1035, 1038, 1185, 1308, 1543, 2042a, 3767

Israel 127, 1510, 3406, 3473, 3482-3486, 3557, 3559, 3581, 3582, 3620, 3637,
 3784, 3957

Italy 27, 28, 59, 65, 66, 67, 388, 389, 852, 2544, 2545, 2736, 3217

Ivory Coast 658

Jamaica 457, 707, 1496, 1862-1864, 1865, 1866, 1867, 1911, 1975a-1977,
 1978, 1992a, 1995, 2479, 2880, 3349, 3574

Japan 129, 579, 893, 1247, 2886, 2907-2911, 2917-2919, 2921

Kalao Island 76, 93

Kenya 48, 50, 51, 71, 102, 105, 106, 190-193, 249-252, 451, 475, 507,
 534-536, 959, 960, 1326, 1328-1338, 1416, 1417, 1422-1424, 1426,
 1432, 1433, 1435-1438, 1442, 1446, 1447, 1450, 1452, 1453, 1455,
 1456, 1508, 1544, 1545, 1550-1552, 1572, 1573, 1579, 1580, 1723,
 1737, 1747-1751, 1754, 1805, 1917, 1918, 1920, 2076, 2401-2406,
 2408-2410, 2719, 2741, 2835, 2837, 2838, 3065, 3066, 3215, 3219,
 3429, 3432, 3433, 3602, 3606, 3650, 3674, 3678-3692, 3717-3721,
 3733-3740, 3764, 3765, 3771-3782, 3845-3854, 3868, 3879, 3881-3889,
 3904, 3926-3936, 3958

Kergulen Island 2799

Lesotho 2894

Libya 3612, 3631, 3855, 3890, 3963

Line Islands 1189

Madagascar 2642

Madagascar, Democratic Republic of 670, 2640, 2641, 2884, 2885, 2891

Malawi 320, 346, 476-478, 497, 498, 563, 671, 672, 676, 677, 724, 729-732, 734, 736-741, 743, 748-750, 818, 951, 952, 1027-1029, 1031, 1032, 1087-1100, 1116, 1117, 1119-1121, 1218, 1231, 1232, 1318, 1320, 1322, 1324, 1325, 1327, 1342, 1343, 1408-1412, 1425, 1431, 1439, 441, 1444, 1448, 1451, 1454, 1458, 1460, 1588, 1589, 1600-1602, 1605, 1608, 1609, 1616, 1618, 1752, 1753, 2090-2092, 2094, 2095, 2243-2246, 2393-2395, 2623, 2624, 2647, 2648, 2840-2844, 2847, 2848, 3064, 3093, 3095, 3177, 3216, 3230, 3471, 3920

Malay Peninsula 13, 684-688

Malaysia 180, 202, 679, 693, 824, 833, 1010-1016, 1056-1063, 1070, 1292, 1293, 1369, 1647, 1648, 1960-1965, 2102-2106, 2116, 2118, 2120, 2732, 2738, 2938, 2951-2954, 3074, 3189, 3203, 3329, 3495, 3543, 3544, 3560, 3567, 3601, 3656, 3876-3878, 3939-3941

Mauritania 3542

Mauritius 437, 1853-1855

Mesopotamia 2998

Mexico 212-215, 305, 348, 349, 374-378, 557, 565, 568, 640, 647, 648, 1019-1022, 1112, 1113, 1180, 1386, 1394, 1396, 1726, 2082-2085, 2728, 2870, 3508, 3713

Mongolia 897, 1370

Montserrat 461-463, 2681, 2682

Morocco 331, 332, 1744, 1931, 2280-2286, 2851-2863, 3357, 3621, 3698, 3699

Mozambique 1364, 2225-2229, 2287-2299, 2301-2306, 2308-2317, 2413-2423, 2425-2432, 2437-2440, 3002

Mozambique, Peoples Republic of 2021, 2022

Namibia 329, 2110, 3438

Nepal 1110

New Caledonia 3521

New Zealand 2068, 2069, 2165, 2722, 2751, 3350, 3394, 3395, 3556, 3626, 3862-3864, 3923

Nigeria 20, 194-198, 443, 464, 465, 660-665, 1214-1216, 1236, 1316, 1317, 1417, 1421, 1443, 1547, 1553, 1836-1838, 1939, 1941, 2013-2015, 2196-2200, 2547, 2548, 2711-2713, 2900, 3163, 3166, 3167, 3312-3325

Nigeria, Northern 1554, 1839, 1940, 2042, 2213, 2241, 2319, 2451, 2549-2551
 North Africa 45
 Norway 2236, 2272, 3428
 Nyasaland 614, 673a, 675, 727, 728, 733, 735, 742, 1030, 1033, 1114, 1115,
 1118, 1323, 2093, 2096, 2097, 2247, 2363-2366, 2773, 2839, 3403, 3526,
 3527
 Pakistan 256, 257, 259, 299-302, 323, 765, 904, 1101, 1103, 1242, 1349, 1368,
 1375, 1660, 1685, 1734, 1903, 1979, 2150, 2230, 2342Z, 2358, 2455,
 2460, 2462, 2463, 2465, 2631-2633, 2637, 2693, 3068, 3173, 3331, 3425,
 3431, 3472, 3501, 3548, 3549, 3551, 3552, 3623
 Palestine 2278, 3583, 3618, 3619
 Panama 289, 1275-1287, 1505-1507, 1984, 1999, 2000, 2176-2185, 2317, 2808, 3156,
 3722-3732, 3898-3903, 3966-3970
 Papua New Guinea 6, 1166, 2672, 2781, 2782, 2878, 2903, 3007, 3011, 3715
 Paraguay 70, 638, 967, 1391, 2214-2219, 2221, 2224, 2676, 2677, 2774, 2775,
 2939, 3415
 Peoples Republic of China 524, 1248, 1372-1373, 1400-1402, 1742, 2004-2007,
 2343Z, 2626-2628, 2671, 2920, 2946-2950, 2976-2978,
 3228, 3575, 3576, 3627-3629, 3793, 3942
 Persia 500, 2904, 3397
 Peru 1830, 1831, 1833, 1834, 2162, 2163, 2510-2523, 3238, 3288-3290
 Philippine Islands 2052
 Philippines 545, 2843, 3017, 3076-3078, 3426, 3427
 Philippines, Republic of 2028-2039, 2050, 2051
 Portugal 1591-1593
 Portuguese Congo 2652
 Portuguese East Africa 757, 2300, 2307, 2412, 2424, 2433-2436, 2744
 Puerto Rico 1967, 1968
 Reunion Island 2816
 Rhodesia 473, 751, 753, 1311-1313

Rhodesia, Northern 1933, 1970, 2166, 2168, 3257, 3260, 3367

Rhodesia, North West 335, 3033

Rhodesia, Southern 3192, 3554

Romania 367, 1816, 1818-1821

Rook Island 2674

Roumania 1817

Russia 2062, 3009

Rwanda 2801

Saint Kitts 318, 2683

Saint Lucia 1704-1706

Saint Vincent 2684

Samoa Islands 2070

Sarawak 219-221, 293-296, 307-309, 325, 466, 689, 954, 955, 1563

Sardinia 1151

Saudi Arabia 3783

Scotland 83, 355, 400-402, 405, 414-417, 422, 423, 447, 459, 667, 933,
934, 961, 962, 1042, 1054, 1132, 1142, 1200, 1294, 1295, 1542, 2380,
2777, 3190

Senegal 888, 1604, 3000

Siam 3186

Sierra Leone 1812, 1898, 1899, 1901, 1902, 1915, 1923, 2065, 2098, 2123-
2148, 2194, 2195, 2255-2271, 2273, 2325-2344, 2482-2507, 2654-
2670, 3034-3058, 3094, 3111, 3142-3154, 3332, 3530

Singapore 482, 635, 2457-2459

Singapore, Republic of 1017

Somalia 2392

Somali Democratic Republic 189, 333, 953, 1155, 1158, 3610, 3611, 3633-3636, 3670,
3761, 3786-3788, 3960, 3962

Somaliland 1203

- South Africa 8, 177, 177X, 231, 361-364, 408, 410, 412, 418-420, 449, 450, 474, 616, 651, 834, 923, 924, 1083, 1354, 1467-1471, 1475, 1487, 1489, 1491, 1493, 1925, 2154, 3476, 3477, 3480, 3481, 3753, 3755, 3756, 3770
- South Africa, Republic of 26, 52, 53, 79, 107, 121, 124, 199, 200, 228-230, 232-235, 306, 365, 366, 406, 407, 409, 411, 413, 421, 441, 448, 521, 615, 649, 758, 830, 831, 836-847, 849, 850, 859, 860, 894, 895, 905, 912, 913, 919-922, 948, 964, 975, 1048, 1049, 1055, 1082, 1111, 1167, 1187, 1235, 1298, 1350-1353, 1355-1357, 1461, 1462, 1466, 1472-1474, 1488, 1492, 1494, 1629, 1659, 1732, 1912-1914, 2024-2026, 2149, 2892, 2896, 2944, 3244, 3361, 3434, 3474, 3475, 3478, 3479, 3584, 3709, 3716, 3741-3752, 3754, 3757-3760, 3795, 3865-3867, 3869-3871
- South America 36, 674, 826, 1524, 1822, 1935, 2686, 2821, 2995, 3609
- South Nigeria 3204
- Southern Europe 1727
- Spain 1936-1938, 2117, 2156, 2171, 3134, 3135, 3165, 3309, 3414
- Sri Lanka 144-154, 182-188, 510, 512a, 514, 515, 517-519, 811, 891, 950, 1107-1109, 1228, 1229, 1233, 1244, 1245, 1512, 1698, 2001, 2692, 2766, 2889, 2901, 2934, 2983, 3221, 3326, 3398, 3608, 3872
- Sudan 21b, 22, 23, 24, 29, 89, 155, 239-241, 438-440, 442, 525-531, 827-829, 1562, 1571, 1687, 2202-2205, 2390, 3075, 3121
- Sulawesi 72, 73, 74
- Sumatra 540, 1274
- Surinam 2809, 3440-3468
- Switzerland 619, 624, 625, 1069, 1161, 1700, 1702, 3224, 3532, 3533
- Syria 3013
- Taiwan 2643, 2715, 2730, 2912-2916, 3399
- Tanzania 330, 368, 944, 945, 947, 996, 997, 1171, 1246, 1309, 1430, 1611, 1612, 1630-1646, 1755, 1757, 1758, 1761-1765, 1767, 1770-1777, 1779-1799, 2108, 2109, 2557, 2560-2567, 2569-2571, 2573-2577, 2579-2581, 2583-2616, 2784-2789, 2791-2794, 2796, 2797, 2825, 2846, 2893, 2999, 3001, 3006, 3261-3264, 3266-3272, 3274, 3276, 3297-3308, 3413, 3714, 3906, 3945
- Thailand 1985, 1986, 2088, 2089, 2232-2235, 3185, 3187, 3188, 3327, 3346
- Trinidad 313, 315, 1957, 1993, 1994, 2010, 2086, 2112, 2238

Trinidad and Tobago 2239

Tropical America 40

Tunisia 659, 1696, 2161, 2172, 2193, 3545

Tunisia, Near 1740

Turkey 2552-2555, 2817, 2923-2927, 3647

Uganda 159-165, 218, 508, 532, 636, 680-682, 690-692, 694, 695, 744, 772-779, 819, 871-887, 938-941, 957, 958, 1150, 1238, 1290, 1291, 1344, 1345, 1403-1405, 1427, 1434, 1440, 1449, 1457, 1548, 1549, 1581, 1585, 1586, 1603, 1607, 1708-1722, 1725, 1809, 1810, 1813, 1900, 1919, 1921, 1922, 1981, 2018-2020, 2173, 2396, 2622, 2716, 2718, 2972, 2973, 3014, 3015, 3060, 3091, 3092, 3113, 3210, 3211, 3528, 3529, 3546, 3638, 3710, 3799-3844, 3873, 3891-3897, 3909-3917, 3924, 3925, 3944, 3946-3950, 3952-3954, 3959

Uganda-Zaire border 559

Unknown 15, 16, 61, 77, 78, 90-92, 122, 137, 138, 141, 156, 206, 247, 253, 272, 281, 287, 444, 455, 460, 516, 520, 548, 549, 555, 558, 561, 564, 574, 575X, 584-587, 589-591, 595, 613, 617, 620, 628, 629, 632, 634, 639, 771X, 848, 851, 889, 903, 908, 909, 911, 914, 916, 917, 924-927, 935-937, 969-974, 976, 984, 985, 1018, 1034, 1043-1045, 1047, 1066, 1076, 1077, 1102, 1153, 1157, 1164, 1198, 1204, 1259, 1395, 1463, 1464, 1481, 1482, 1517, 1587, 1590, 1620, 1625, 1626, 1652-1656, 1806, 1861, 2011, 2372-2374, 2376, 2381, 2383, 2386-2388, 2762, 2764, 2822, 3010, 3127-3129, 3136, 3138-3143, 3157, 3330, 3351, 3354, 3496, 3585, 3604, 3613, 3632, 3645, 3646, 3673

Upper Congo 2012

Upper Volta 2807

Uruguay 2175, 2186, 2720, 3164

U.S.A. 1, 2, 139, 166, 209-211, 226, 244, 266-271, 273-280, 282-286, 288, 290, 291, 379-387, 594, 626, 666, 696-699, 701-706, 708, 710, 713, 715-723, 1227, 1230, 1376, 1399, 1465, 1530-1539, 1569, 1570, 1596, 1627, 1628, 1629, 1658, 1689, 1731, 1951-1955, 2008, 2009, 2047-2049, 2054, 2078, 2087, 2274, 2321-2324, 2391, 2714, 2737, 2739, 2772, 2833, 2834, 2993, 2994, 3021, 3022, 3100, 3101, 3225, 3310, 3311, 3328, 3356, 3417, 3435, 3470, 3487, 3490, 3493, 3498-3500, 3503, 3505-3508, 3639-3643, 3769, 3797, 3919, 3965

U.S.S.R. 714, 780-810, 1078, 1226, 1594, 1743, 1987, 2058-2061, 2063, 2064, 2897, 2932, 3008, 3630, 3768

Vanuatu 3569, 3570

Vietnam 2721, 3599

Wales 119, 606, 609, 746, 968, 1307, 1594, 1703, 1868, 1916, 1991, 2053,
2067, 2079, 2164, 2733-2735, 3205-3209, 3229, 3353, 3564, 3651

West Africa 37, 39, 505, 654, 858, 1613, 1811, 3126

West Indies 1599, 3525

Western Samoa 3568, 3571-3573

White Nile 956

Yemen, Peoples Republic of 35, 657, 966, 1513, 1575, 3413

Yugoslavia 2933, 2979, 3370, 3577

Zaire 311, 337, 338, 1582-1584, 1606, 1610, 1614, 1615, 1619, 1621, 1650,
1694, 2352-2356, 2397, 2398, 2466, 2467, 2469, 2471-2473, 2476, 2477,
2849, 2902, 2906, 3342-3345, 3374-3384, 3436, 3437, 3491, 3668, 3669, 3671,
3937

Zambia 245, 246, 297, 334, 336, 752, 754, 755, 1314, 1315, 1413, 1414, 1459,
2040, 2041, 2071a, 2072, 2167, 2169, 2170, 2188, 2211Z, 2212,
2240, 2242, 2320, 2361, 2362, 2389, 2411, 2450, 2453, 2481,
2537-2540, 2638, 2639, 2700-2702, 3018, 3029-3032, 3255, 3256, 3258, 3259,
3368, 3369, 3856

Zanzibar 2845, 3265, 3273, 3275

Zimbabwe 458, 467, 468, 577, 578, 2073-2075, 2941, 2945, 3200, 3588, 3693, 3697

